

CAREERS 360

PRACTICE **Series**

AP ICET – 2025

Mock Test
With Detailed
Solutions



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A Note for the **STUDENTS**

Dear Student,

AP ICET or Andhra Pradesh Integrated Common Entrance Test is an entrance exam in India for admission to MBA/MCA courses in Andhra Pradesh universities. If you want to excel in the AP ICET examination, practice is the key. So, practicing the sample paper based on the actual exam pattern of AP ICET will always help the aspirant to get aware of the exam pattern, level of the questions, types of questions of AP ICET, etc.

After covering the theory from the syllabus of the AP ICET, it's always recommended to practice more and more MCQs from authentic resources, such as sample papers and previous year question papers.

We at Careers360, created the most authentic sample paper with the help of expert faculties. The AP ICET exam tests students on different parameters like Analytical ability, Mathematical ability, and Communication ability. This 150-minute paper will have a total of 200 questions, with no sectional time limits.

It is very important to practice as many MCQs as possible from sample papers to improve time management skills. Also, practicing MCQs will help you become well aware of different question types, levels of the questions and help you refine your attempt strategy. So, practice a lot with the help of sample papers to excel in AP ICET

All the best
Team Careers360

ABOUT THE EBOOK

In this eBook, you will find a sample paper of 200 MCQs with comprehensive solutions to better aid your understanding. It covers all the sections included in the AP ICET syllabus: Analytical ability, Mathematical ability, and Communication ability.

The detailed solutions will help students to understand the logic behind each correct answer, and thus they'll be able to solve similar questions in the exam. In addition, the eBook gives students insight into the exam pattern and syllabus by adhering to the criteria and syllabus set for the AP ICET 2025 exam.

AP ICET - SAMPLE PAPER

Q1. In a certain code language, PARK is written as 92 and WALK is written as 94. How is LOSS written in that code language?

- 1) 65
- 2) 130
- 3) 195
- 4) 180

Correct Option: 2)

Solution

Given:

PARK is written as 92 and WALK is written as 94.

PARK→The place value of P is 16, A is 1, R is 18, and K is 11.

Add all the place values to get the number→ $16 + 1 + 18 + 11 = 46$

Then, multiply it by 2→ $46 \times 2 = 92$

WALK→The place value of W is 23, A is 1, L is 12, and K is 11.

Add all the place values to get the number→ $23 + 1 + 12 + 11 = 47$

Then, multiply it by 2→ $47 \times 2 = 94$

Similarly, for LOSS –

The place value of L is 12, O is 15, and S is 19.

Add all the place values to get the number→ $12 + 15 + 19 + 19 = 65$

Then, multiply it by 2→ $65 \times 2 = 130$

Thus, LOSS is coded as 130. Hence, the second option is correct.

Q2. If Red is called Tomato, Tomato is called Sweet, Sweet is called Good, and Good is called Clean, then what is the colour of blood?

- 1) Good
- 2) Clean
- 3) Tomato
- 4) Red

Correct Option: 3)

Solution

Here, as per the given instructions –

Red represents Tomato; Tomato represents Sweet; Sweet represents Good; Good represents Clean

Since, in the real world, the colour of Blood is Red, therefore, according to the colour code, the colour of Blood will be Tomato.

Hence, the third option is correct.

Q3. Directions: In a certain code language, PAINT is written as ODYTN, and BRUSH is written as CMMOZ. How will HOUSE be written in that language?

- 1) WDNOS
- 2) WPMOC
- 3) PHYWS
- 4) PBOMS

Correct Option: 2)

Solution

Given:

PAINT is written as ODYTN, and BRUSH is written as CMMOZ.

Add 4 in opposite letters of the first two letters and add 7 in the next three letters of PAINT, to obtain the required code –

Thus, PAINT is coded as ODYTN.

And in, BRUSH is written as CMMOZ –

Similarly, follow the same pattern for HOUSE –

Thus, HOUSE is coded as WPMOC. Hence, the second option is correct.

Q4. Directions: In a certain code language, FRIGHT is written as FOCQED, and SHREDS is written as OEPPAB. How will UPSETS be written in that language?

- 1) PMRSQB
- 2) PMROQB
- 3) PMRPQB
- 4) PMSPQB

Correct Option: 3)

Solution

Given:

FRIGHT is written as FOCQED, and SHREDS is written as OEPPAB.

Subtract 3 from the positional value of FRIGHT as shown to obtain the required code –

Thus, FRIGHT is written as FOCQED.

And in, SHREDS is written as OEPPAB –

Thus, SHREDS is written as OEPPAB in the code language.

Similarly, by applying the same pattern for UPSETS –

Thus, UPSETS is written as PMRPQB in the code language. Hence, the third option is correct.

Q5. Directions: In a certain code language, COACH is coded as XAOHC, and BERTH is coded as WREHT. How will TRAIN be coded in the same language?

- 1) OARNI
- 2) PARNI
- 3) PARIN
- 4) ONIAR

Correct Option: 1)

Solution

Given:

COACH is written as XAOHC.

BERTH is written as WREHT.

Subtract 5 from the first letter of COACH and change the position as shown, to obtain the required code –

Thus, COACH is written as XAOHC.

And in, BERTH is written as WREHT –

Thus, BIRTH is written as WREHT.

Similarly, by following the same pattern for TRAIN –

Thus, TRAIN is written as OARNI in the code language. Hence, the first option is correct.

Q6. Directions: In a certain code language, COURT is coded as OCRTR, and JUDGE is coded as UJAEG. How will ORDER be coded in the same language?

- 1) LDRRE
- 2) ROARE
- 3) REARO
- 4) ROBRE

Correct Option: 2)

Solution

Given:

COURT is coded as OCRTR, and JUDGE is coded as UJAEG.

Change the position of letters and subtract 3 from the positional value of the third letter of COURT, to obtain the required code –

Thus, COURT is written as OCRTR.

And in, JUDGE is coded as UJAEG –

Thus, JUDGE is written as UJAEG.

Similarly, by following the same pattern for ORDER –

Thus, ORDER is written as ROARE in the code language. Hence, the second option is correct.

Q7. Directions: In a certain code language, HAPREB is written as IEUQAW, and GBCDFA is written as HFHCBV. How will QRPLAC be written in that language?

- 1) RVUKWX
- 2) RVUJWX
- 3) RVUJXW
- 4) RVUKXW

Correct Option: 1)

Solution

Given:

HAPREB is written as IEUQAW, and GBCDFA is written as HFHCBV.

Add 1, 4 and 5 in positional value of first, second and third letter and subtract 1, 4 and 5 in the positional value of fourth, fifth, and sixth letters of HAPREB, to obtain the required code –

Thus, HAPREB is coded as IEUQAW.

And in, GBCDFA is written as HFHCBV –

Thus, GBCDFA is coded as HFHCBV.

Similarly, by following the same pattern for QRPLAC –

Thus, QRPLAC is coded as RVUKWX. Hence, the first option is correct.

Q8. Directions: In a code language, PLUM is written as KQOMFVNN. How will BIG be written in that language?

- 1) YCRKTM
- 2) CYRJGT
- 3) XCSJTH
- 4) YCRJTH

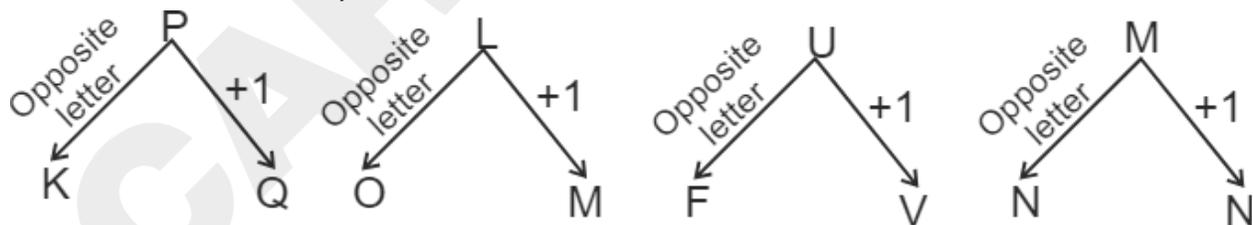
Correct Option: 4)

Solution

Given:

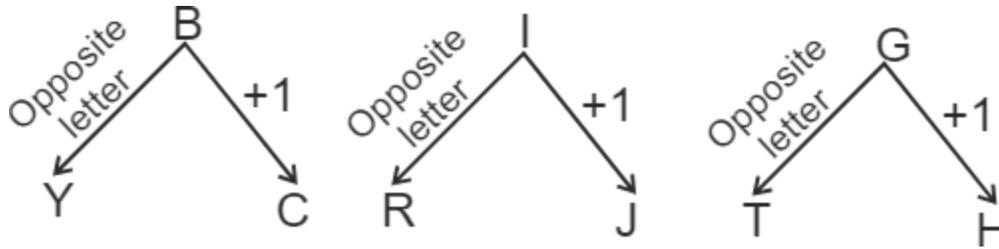
PLUM is written as KQOMFVNN.

Code the letters with the opposite letter and add 1 in the same letters of PLUM as shown, to obtain the required code –



Thus, PLUM is coded as KQOMFVNN.

Similarly, by following the same pattern for BIG –



Thus, BIG is coded as YCRJTH. Hence, the fourth option is correct.

Q9: A is the father of B, B is the daughter of C, D is the brother of B, and N is the sister of C. How is B related to N?

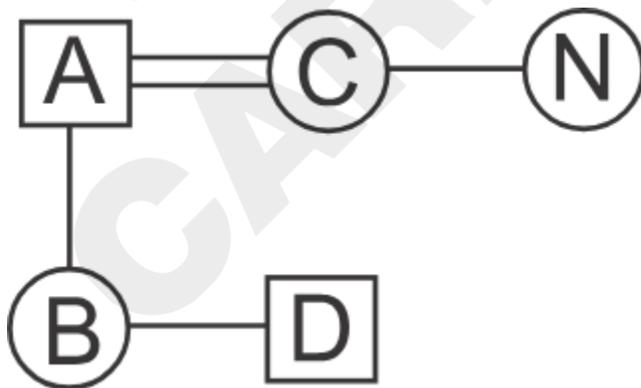
- 1) Daughter
- 2) Niece
- 3) Mother
- 4) Sister

Correct Option: 2)

Solution

Given:

B ⇒ daughter of A and C; C ⇒ mother of B; N ⇒ sister of C



Here, the square represents the male and the circle represents the female in the figure.

Therefore, B is the niece of N. Hence, the second option is correct.

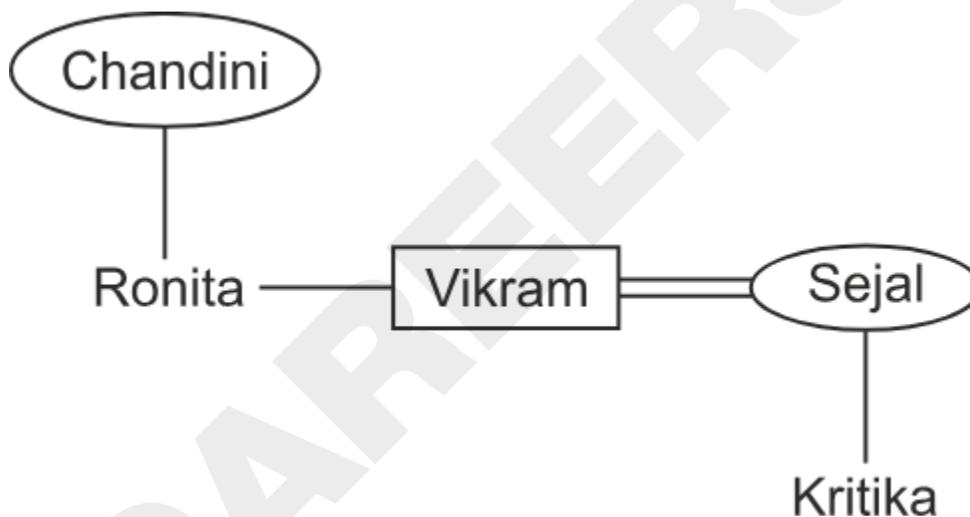
Q10: Ronita's only brother Vikram is the husband of Kritika's mother Sejal. How is Ronita's mother Chandini related to Kritika?

- 1) Paternal grandmother
- 2) Paternal aunt
- 3) Maternal grandmother
- 4) Mother-in-law

Correct Option: 1)

Solution

As per the given information, the family tree will be as follows –



Here, the quadrilateral represents the male and the circular figure represents the female in the figure.

So, from the above family tree, Chandini is the paternal grandmother of Kritika. Hence, the first option is correct.

Q11: There are five girls R, S, T, P, and Q sitting in a row facing north. T is sitting exactly in the middle of the row. Q is sitting to the immediate right and immediate left of P and T, respectively. S is not sitting at the extreme end. Who is sitting third to the left of R?

- 1) P
- 2) Q
- 3) S
- 4) T

Correct Option: 2)

Solution

Given:

(i) T is sitting exactly in the middle of the row.



(ii) Q is sitting to the immediate right and immediate left of P and T, respectively. S is not sitting at the extreme end.



From the final seating arrangement, Q is sitting third to the left of R. Hence, the second option is correct.

Q12: Five students are standing one behind the other in the playground facing the instructor. Malini is behind Anjana but in front of Gayathri. Meena is in front of Shena but behind Gayathri. What is the position of Meena?

- 1) Second from last
- 2) Extreme first

3) Extreme last

4) Second from first

Correct Option: 1)

Solution

According to the given statement, Malini is behind Anjana but in front of Gayathri. So, the arrangement is –

Anjana
Malini
Gayathri

Also, Meena is in front of Shena but behind Gayathri. So, the arrangement –

Gayathri
Meena
Shena

The final arrangement –

Anjana
Malini
Gayathri
Meena
Shena

So, Meena is second from the last. Hence, the first option is correct.

Q13: Among seven girls Aanya, Bira, Cleo, Diana, Elle, Fathima, and Georgia, each has a different age. Fathima is older than only Cleo. Bira is younger than only Georgia. Diana is older than the four other girls. Aanya is younger than Elle. Who is the fourth oldest among the girls?

1) Elle

2) Bira

- 3) Diana
- 4) Fathima

Correct Option: 1)

Solution

Given:

(I) Fathima is older than only Cleo.

Fathima > Cleo

(II) Bira is younger than only Georgia. Diana is older than the four other girls.

Georgia > Bira > Diana > __ > __ > __ > __

(III) Aanya is younger than Elle. After combining them we get –

Georgia > Bira > Diana > Elle > Aanya > Fathima > Cleo

So, Elle is the fourth oldest among the girls. Hence, the first option is correct.

Q14: Five girls, A, B, C, D, and E, travel to only one of the following five cities: Mumbai, Delhi, Kolkata, Chennai, and Jaipur. E does not travel to Kolkata, Mumbai, or Chennai. D does not travel to Mumbai, Chennai, or Delhi. A travels to Jaipur. C does not travel to Mumbai. To which city does C travel?

- 1) Kolkata
- 2) Chennai
- 3) Jaipur
- 4) Delhi

Correct Option: 2)

Solution

Given:

(I) Five girls, A, B, C, D, and E, travel to only one of the following five cities: Mumbai, Delhi, Kolkata, Chennai, and Jaipur.

(II) E does not travel to Kolkata, Mumbai, or Chennai.

(III) D does not travel to Mumbai, Chennai, or Delhi.

(IV) A travels to Jaipur. C does not travel to Mumbai.

According to the given statements, the table is given below

	A	B	C	D	E
Mumbai	X	✓	X	X	X
Delhi	X	X	X	X	✓
Kolkata	X	X	X	✓	X
Chennai	X	X	✓	X	X
Jaipur	✓	X	X	X	X

So, C travels to Chennai. Hence, the second option is correct.

Q15: Five friends K, L, M, N, and O play one of five different sports Cricket, Football, Hockey, Badminton, and Volleyball. Each friend plays only one sport. L and M do not play Hockey and Badminton. K plays Cricket. M does not play Volleyball. O does not play Badminton. Who plays Volleyball?

- 1) L
- 2) Either L or O
- 3) N
- 4) Either L or N

Correct Option: 1)

Solution

Given:

- I. L and M do not play Hockey and Badminton.
- II. K plays Cricket. M does not play Volleyball.
- III. O does not play Badminton.

According to the given instructions figure is given below.

Game / Persons	K	L	M	N	O
Cricket	✓	X	X	X	X
FootBall	X	X	✓	X	X
Hockey	X	X	X	X	✓
Badminton	X	X	X	✓	X
VolleyBall	X	✓	X	X	X

So, L plays Volleyball. Hence, the first option is correct.

Q16: Four students P, Q, R, and S learn one language each from among English, French, Spanish, and German. P and R do not learn Spanish. S learns French. If P does not learn German, then who learns English?

- 1) R
- 2) Q
- 3) P
- 4) S

Correct Option: 3)

Solution

Given:

1. P and R do not learn Spanish.
2. S learns French.
3. P does not learn German.

Make the table format for the person and the language they learn.

The order will be –

P	English
Q	Spanish
R	German
S	French

So, P learns the English language. Hence, the third option is correct.

Q17: In the following question, select the related word from the given alternatives.

Volcano : Earth :: Tsunami : ?

- 1) Ocean
- 2) Death
- 3) Coast
- 4) Sand

Correct Option: 1)

Solution

Given:

Volcano : Earth :: Tsunami : ?

Like, a volcano erupts from the earth's surface.

Similarly, tsunamis occur in the oceans.

Hence, the first option is correct.

Q18: Which set of letters when sequentially placed at the gaps in the given letter series shall complete it?

cc_b_c_ba_ab

- 1) ccac
- 2) cbaa
- 3) aabb
- 4) cdab

Correct Option: 1)

Solution

Given:

cc_b_c_ba_ab

To fill the series we have to divide the series – cc_b / _c_b / a_ab

Let's check each option –

First option: ccac; cccb / ccab / acab

Second option: cbaa; cccb / bcab / aaab

Third option: aabb; ccab / acbb / abab

Fourth option: cdab; cccb / dcab / abab

So, the series becomes → cccbccabacab. Hence, the first option is correct.

Q19: In the following question, which one set of letters/numbers when sequentially placed at the gaps in the given letter series shall complete it?

_cdb_ddb_db_c_d

- 1) bbbcc
- 2) cccbc
- 3) bbcbb

4) ccbcc

Correct Option: 2)

Solution

Given:

_cdb_ddb_db_c_d

To fill the series we have to divide the series –

Let's check each option – _cdb_ddb_db_c_d

First option: bbbcc; By applying this we get the series bcd bbd dbb dbc ccd

Second option: cccbc; By applying this we get the series ccd bc/d d bcd /b bccd

Third option: bbcbb; By applying this we get the series bcd bbd dbc dbb cbd

Fourth option: ccbcc; By applying this we get the series ccd bcd dbb dbc ccd

So from these options only option second follows the correct pattern i.e. bcd.

Hence, second option is correct.

Q20: The following series has one term missing. Select the correct alternative from the options below to complete the series.

A7F, E15J, I23N, ?

1) R13M

2) M31R

3) R23M

4) R37S

Correct Option: 2)

Solution

Given:

A7F, E15J, I23N, ?

Add 4 to each letter and 8 to each number of the previous term to obtain the next term in the series.

A7F → A + 4 = E; 7 + 8 = 15; F + 4 = J → E15J
 E15J → E + 4 = I; 15 + 8 = 23; J + 4 = N → I23N
 I23N → I + 4 = M; 23 + 8 = 31; N + 4 = R → M31R

M31R is the missing term of the series. Hence, the second option is correct.

Q21: The following series has one number missing. Select the missing number from the given alternatives.

19, 9, 28, 37, 65, ?

- 1) 99
- 2) 97
- 3) 102
- 4) 113

Correct Option: 3)

Solution

Given:

19, 9, 28, 37, 65, ?

Add the first two numbers to get the third number, then add the second and third numbers to get the fourth number, and so on.

$$19 + 9 = 28; 9 + 28 = 37; 28 + 37 = 65; 37 + 65 = 102$$

102 is the missing number of the series. Hence, the third option is correct.

Q22: A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

AK12, GV29, LF18, PO?

- 1) 34
- 2) 31
- 3) 42

4) 40

Correct Option: 2)

Solution

Given:

AK12, GV29, LF18, PO?

First term: AK12 → $A + K = 1 + 11 = 12$

(Positional value of A = 1 and K = 11.)

Second term: GV29 → $G + V = 7 + 22 = 29$

(Positional value of G = 7 and V = 22.)

Third term: LF18 → $L + F = 12 + 6 = 18$

(Positional value of L = 12 and F = 6.)

Similarly, Fourth term: PO? → $P + O = 16 + 15 = 31$

(Positional value of P = 16 and O = 15.)

Hence, the second option is correct.

Q23: A series is given with one term missing. Select the correct alternative from the given ones to complete the series.

Employ, Oyster, Error, Ornate, Tennis, ?

- 1) Neptune
- 2) Nature
- 3) Terminate
- 4) Isomer

Correct Option: 4)

Solution

Given:

employ, oyster, error, ornate, tennis, ?

Here, the last two letters of a word are the first two letters of the next word in the series.

employ→oyster→error→ornate→tennis

So, the next word will start with 'is'.

Let's check the options –

First option: Neptune→The first two letters are not "i" and "s".

Second option: nature→The first two letters are not "i" and "s".

Third option: terminate→The first two letters are not "i" and "s".

Fourth option: isomer→The first two letters are "i" and "s".

"Isomer" is the only one that follows the pattern. Hence, the fourth option is correct.

Q24: A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

hello, lower, error, organ, analyse, ?

- 1) night
- 2) rapture
- 3) senile
- 4) watch

Correct Option: 3)

Solution

Given:

hello, lower, error, organ, analyse, ?

The pattern used here is that the next word is formed from the last two letters of the previous word.

hello→lower→error→organ→analyse

So, the next word will contain 'se' as the first two letters.

Let's check the options –

First option: night→The first two letters are not "s" and "e".

Second option: rapture→The first two letters are not "s" and "e".

Third option: senile→The first two letters are "s" and "e".

Fourth option: watch→The first two letters are not "s" and "e".

"Senile" is the word that follows the pattern. Hence, the third option is correct.

Q25: A series is given below with one term missing. Choose the correct alternative from the given ones that will complete the series.

CEG, IKM, OQS, ?

- 1) UWY
- 2) UYX
- 3) UVY
- 4) TWY

Correct Option: 1)

Solution

Given:

CEG, IKM, OQS, ?

The pattern followed here is –

CEG → C + 2 = E; E + 2 = G; G + 2 = I (first letter of the next term)

IKM → I + 2 = K; K + 2 = M; M + 2 = O (first letter of the next term)

OQS → O + 2 = Q; Q + 2 = S; S + 2 = U (first letter of the next term)

U + 2 = W; W + 2 = Y → UWY

UWY is the missing term of the given series. Hence, the first option is correct.

Q26: A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

Second, Minute, Hour, ?

- 1) Days
- 2) Night
- 3) Year
- 4) Month

Correct Option: 1)

Solution

Given:

Second, Minute, Hour, ?

We know that the second is the smallest unit of time in terms of magnitude. Also, minutes constitute multiple seconds, and hours constitute multiple minutes. Similarly, multiple hours combined constitute a day.

So, days is the missing term of the given series. Hence, the first option is correct.

Q27: A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

?, Hexane, Heptane, Octane

- 1) Pentane
- 2) Benzene
- 3) Nonane
- 4) Methane

Correct Option: 1)

Solution

Given:

?, Hexane, Heptane, Octane

The order is as follows –

Hexane (alkane of 6 carbon atoms) < Heptane (alkane of 7 carbon atoms) < Octane (alkane of 8 carbon atoms)

So, Pentane (alkane of 5 carbon atoms) is the missing term of the given series. Hence, the first option is correct.

Q28: A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

Mouth, Esophagus, Stomach, ?

- 1) Large Intestine
- 2) Small Intestine
- 3) Liver
- 4) Pancreas

Correct Option: 2)

Solution

Given:

Mouth, Esophagus, Stomach, ?

The digestion of food starts from the mouth passes through the esophagus, enters the stomach, and then is transferred to the small intestine.

So, the order of digestion of food is like –

Mouth < Esophagus < Stomach < Small Intestine

So, the small intestine is the missing term of the given series. Hence, the second option is correct.

Q29: A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

Jaipur, Rajasthan, India, ?

- 1) Europe
- 2) Antarctica
- 3) Asia
- 4) Australia

Correct Option: 3)

Solution

Given:

Jaipur, Rajasthan, India, ?

To complete the series, we need to provide a larger geographical region that encompasses India.

Asia has a larger geographical region that encompasses India.

So, the order of the series is like –

Jaipur < Rajasthan < India < Asia

So, Asia is the missing term of the given series. Hence, the third option is correct.

Q30: A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

?, Lal Bahadur Shastri, Indira Gandhi, Morarji Desai, Chaudhary Charan Singh

- 1) Jawaharlal Nehru
- 2) Rajiv Gandhi
- 3) Manmohan Singh
- 4) V. P. Singh

Correct Option: 1)

Solution

Given:

?, Lal Bahadur Shastri, Indira Gandhi, Morarji Desai, Chaudhary Charan Singh

We can deduce that the series is a list of Prime Ministers of India in chronological order. Lal Bahadur Shastri served as the second Prime Minister of India. So, to fill the series we need to find out who served as the first Prime minister of India.

So, the first Prime Minister of India was Jawaharlal Nehru. Hence, the first option is correct.

Q31: A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

Asia, Africa, North America, ?

- 1) China
- 2) Australia
- 3) Canada
- 4) Japan

Correct Option: 2)

Solution

Given:

Asia, Africa, North America, ?

There are seven continents in the world. They are North America, Africa, Asia, Antarctica, Europe, South America and Australia.

The above-given series consists of the names of seven continents.

So, we need to find the continent from the given options. Let's check the options –

First option: China; China is not a continent.

Second option: Australia; Australia is a continent.

Third option: Canada; Canada is not a continent.

Fourth option: Japan; Japan is not a continent.

So, Australia is the missing term of the given series. Hence, the second option is correct.

Q32: Which of the following numbers will replace the question mark (?) in the given series?

1024, 256, 64, ?, 4

- 1) 32
- 2) 34
- 3) 36
- 4) 16

Correct Option: 4)

Solution

Given:

1024, 256, 64, ?, 4

Divide the previous term by 4 to obtain the missing term.

$$1024 \div 4 = 256; 256 \div 4 = 64; 64 \div 4 = 16; 16 \div 4 = 4$$

So, 16 is the missing term in the given series. Hence, the fourth option is correct.

Q33: Which number will replace the question mark (?) in the following series

17, 51, 58, 116, 123, 123, ?

- 1) 150
- 2) 130
- 3) 140
- 4) 120

Correct Option: 2)**Solution**

Given:

17, 51, 58, 116, 123, 123, ?

Multiply the decreasing order of the numbers starting from 3, and add 7 alternately to the given numbers –

$$17 \times 3 = 51; 51 + 7 = 58; 58 \times 2 = 116; 116 + 7 = 123; 123 \times 1 = 123; 123 + 7 = 130$$

So, 130 is the missing number of the series. Hence, the second option is correct.

Q34: Which number will replace the question mark (?) in the following series?

112, ?, 83, 70, 58, 47, 37

- 1) 94
- 2) 97

3) 100

4) 104

Correct Option: 2)

Solution

Given:

112, ?, 83, 70, 58, 47, 37

Subtract decreasing order of numbers starting from 15 to the previous number to get the next number of the series –

$$112 - 15 = 97; 97 - 14 = 83; 83 - 13 = 70; 70 - 12 = 58; 58 - 11 = 47; 47 - 10 = 37$$

So, 97 is the missing number of the series. Hence, the second option is correct.

Q35: Which number will replace the question mark (?) in the following series?

37, ?, 61, 78, 97, 120, 149

1) 48

2) 42

3) 51

4) 60

Correct Option: 1)

Solution

Given:

37, ?, 61, 78, 97, 120, 149

Add consecutive prime numbers to the previous number to get the next number of the series –

$$37 + 11 = 48; 48 + 13 = 61; 61 + 17 = 78; 78 + 19 = 97; 97 + 23 = 120; 120 + 29 = 149$$

So, 48 is the missing number of the series. Hence, the first option is correct.

Q36: Which number will replace the question mark (?) in the following series?
17, 37, 77, 157, 317, ?

- 1) 637
- 2) 683
- 3) 649
- 4) 634

Correct Option: 1)

Solution

Given:

17, 37, 77, 157, 317, ?

The pattern is as follows –

$$17 + 20 = 37$$

$$37 + (20 \times 2) = 37 + 40 = 77$$

$$77 + (40 \times 2) = 77 + 80 = 157$$

$$157 + (80 \times 2) = 157 + 160 = 317$$

$$317 + (160 \times 2) = 317 + 320 = 637$$

So, 637 is the missing number of the series. Hence, the first option is correct.

Q37: Select the option that is correct for the bracketed numbers with respect to their inclusion in the given series.

4, 11, 30, (67), 128, 219, (346), 515

- 1) The first bracketed number is incorrect and the second bracketed number is correct
- 2) Both the bracketed numbers are correct
- 3) Both the bracketed numbers are incorrect
- 4) The first bracketed number is correct and the second bracketed number is incorrect

Correct Option: 2)

Solution

Given:

4, 11, 30, (67), 128, 219, (346), 515;

The pattern is as follows –

$$(1) 3 + 3 = 1 + 3 = 4$$

$$(2) 3 + 3 = 8 + 3 = 11$$

$$(3) 3 + 3 = 27 + 3 = 30$$

$$(4) 3 + 3 = 64 + 3 = 67$$

$$(5) 3 + 3 = 125 + 3 = 128$$

$$(6) 3 + 3 = 216 + 3 = 219$$

$$(7) 3 + 3 = 343 + 3 = 346$$

$$(8) 3 + 3 = 512 + 3 = 515$$

From the above, it is evident that both the bracketed numbers (67), and (346) are correct. Hence, the second option is correct.

Q38: Select the number that can replace the question mark (?) in the following series.

105, 107, 103, ?, 101, 111

1) 102

2) 97

3) 113

4) 109

Correct Option: 4)

Solution

Given:

105, 107, 103, ?, 101, 111

Add and subtract consecutive even numbers alternately starting from 2 –

$$105 + 2 = 107; 107 - 4 = 103; 103 + 6 = 109; 109 - 8 = 101; 101 + 10 = 111$$

So, 109 is the missing number of the series. Hence, the fourth option is correct.

Q39: Two statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements

Statements:

All goods are services.

No service is a delivery.

Conclusions:

I. No good is a delivery.

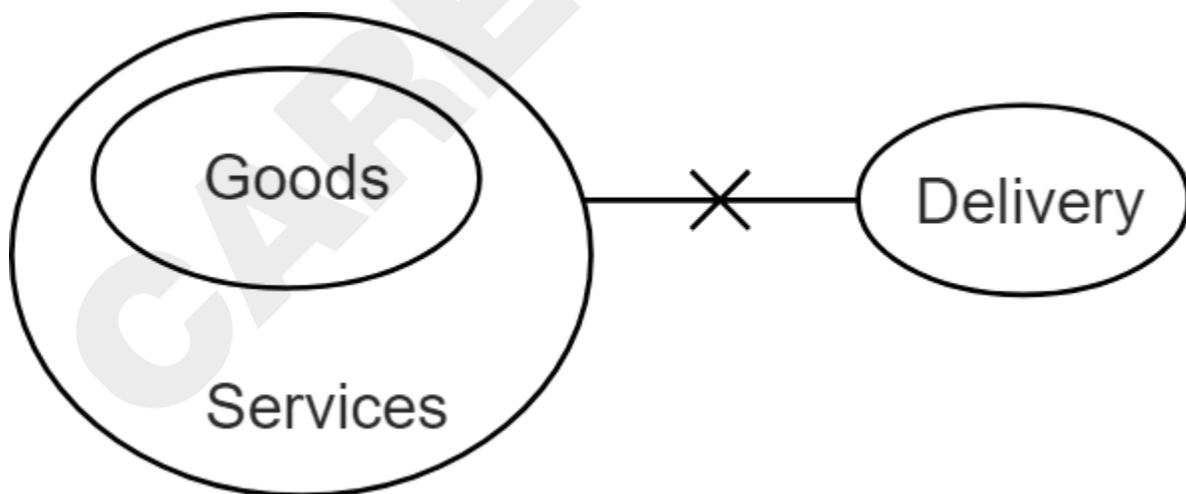
II. Some goods are deliveries.

- 1) Neither conclusion I nor II follows
- 2) Both conclusions I and II follow
- 3) Only conclusion II follows
- 4) Only conclusion I follows

Correct Option: 4)

Solution

The possible Venn diagram according to the given statements is as follows –



Let's analyze the conclusions –

Conclusion I: No good is a delivery – Since all goods are services and no service is delivery. Thus, it can be concluded that no good is a delivery.

Conclusion II: Some goods are deliveries – Since all goods are services and no service is delivery, so no good is a delivery. Thus, this conclusion does not follow.

So, the only conclusion I follows. Hence, the fourth option is correct.

Q40: Three statements are given followed by three conclusions numbered I, II, and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All valleys are mountains.

No sea is a mountain.

Some plains are seas.

Conclusions:

I. Some valleys are plains.

II. No plain is a mountain.

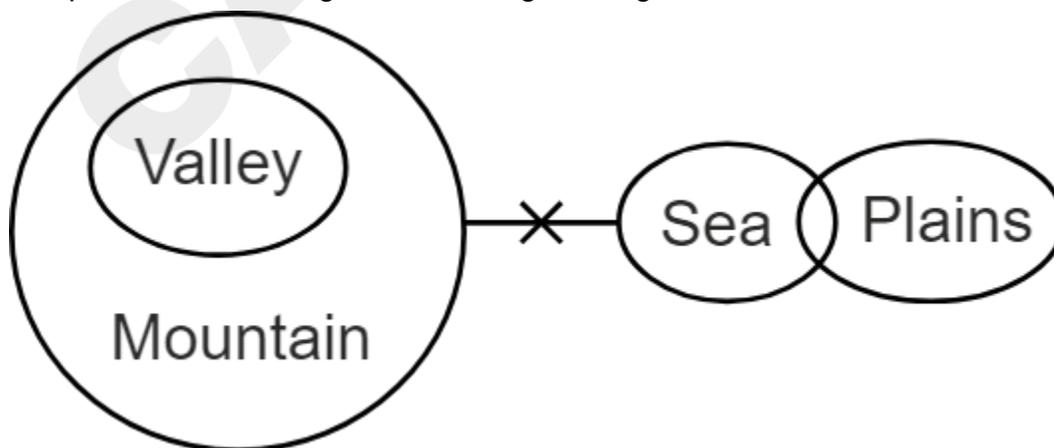
III. No sea is a valley.

- 1) Only conclusion II follows
- 2) Only conclusion III follows
- 3) Only conclusion I follows
- 4) Both conclusions I and II follow

Correct Option: 2)

Solution

The possible Venn diagram according to the given statements is as follows –



Let's analyze the conclusions –

Conclusion I: Some valleys are plains – From the Venn diagram, it is evident that there is no definite relation between valleys and plains. Thus, this conclusion does not follow.

Conclusion II: No plain is a mountain – From the Venn diagram, it is evident that there is no definite relation between plains and mountains. Thus, this conclusion does not follow.

Conclusion III: No sea is a valley – Since all valleys are mountains and no mountain is a sea. Thus, it can be concluded that no sea is a valley.

So, the only conclusion III follows. Hence, the second option is correct.

Q41: Four number-pairs are given out of which three are alike in a certain way and one is different. Select the number-pair that is different from the rest.

- 1) 5 : 7
- 2) 17 : 23
- 3) 13 : 19
- 4) 31 : 41

Correct Option: 1)

Solution

Let's check each option –

First option: 5 : 7; These are the consecutive prime numbers.

Second option: 17 : 23; These are not the consecutive prime numbers.

Third option: 13 : 19; These are not the consecutive prime numbers.

Fourth option: 31 : 41; These are not the consecutive prime numbers.

So, the first option is different from the others. Hence, the first option is correct.

Q42: Four number pairs are given out of which three are alike in a certain way and one is different. Select the number-pair that is different from the rest.

- 1) 16 : 64
- 2) 34 : 289
- 3) 24 : 142
- 4) 14 : 49

Correct Option: 3)

Solution

Let's check each option –

First Option: $16 : 64$; $8 \times 2 : (8)^2 = 16 : 64$

Second Option: $34 : 289$; $17 \times 2 : (17)^2 = 34 : 289$

Third Option: $24 : 142$; $12 \times 2 : (12)^2 = 24 : 144 \neq 142$

Fourth Option: $14 : 49$; $7 \times 2 : (7)^2 = 14 : 49$

So, the third option is different from the other three options as here the square is 144 instead of 142. Hence, the third option is correct.

Q43: Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the number-pair that is different from the rest.

- 1) 34 : 3
- 2) 17 : 6
- 3) 24 : 4
- 4) 2 : 51

Correct Option: 3)

Solution

Let's check each option –

First option: $34 : 3$; 34 is not divisible by 3.

Second option: $17 : 6$; 17 is not divisible by 6.

Third option: $24 : 4$; 24 is divisible by 4.

Fourth option: $2 : 51$; 51 is not divisible by 2.

So, the third option is different from the other three options as here first term is divisible by the second term. Hence, the third option is correct.

Q44: In the question, a part of the sentence is in bold. Below are given alternatives to the bold part at 1, 2 and 3 that may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is (4).

The workers are **hell bent** at getting what is due to them.

1. hell bent on getting
2. hell bent for getting
3. hell bent upon getting
4. No Improvement

1) 1

2) 2

3) 3

4) 4

Correct option: 1)

Solution

The correct alternative is the first option: "hell bent on getting."

The correct phrase is "hell bent on," which means having a strong and determined intention to do something.

So, the correct sentence should be: "The workers are hell bent on getting what is due to them."

Q45: In the following question, a sentence is given with a blank that is to be filled in with an appropriate word. Four alternatives are suggested; choose the correct alternative out of them as your answer.

Few countries can ____ India in variety, colour and richness of dance forms.

- 1) compare

- 2) rival
- 3) perform
- 4) prevail

Correct option: 2)

Solution

The second option is the correct answer: rival.

Compare: To examine the similarities and differences between two or more things.

Rival: A competitor or opponent in a contest or competition.

Perform: To carry out a task or an action; to execute or accomplish.

Prevail: To prove superior or more powerful; to succeed or dominate.

Therefore, the answer is "Few countries can rival India in variety, colour and richness of dance forms."

Q46: In the following question, a sentence is given with a blank that is to be filled in with an appropriate word. Four alternatives are suggested; choose the correct alternative out of them as your answer.

Do your best and we'll back you_____.

- 1) on
- 2) in
- 3) out
- 4) up

Correct option: 4)

Solution

The fourth option is the correct answer: up.

The phrasal verb "back up" means to support someone and this is the only sentence that fits the sentence appropriately.

Therefore, the answer is "Do your best and we'll back you up."

Q47: In the following question, a sentence is given with a blank that is to be filled in with an appropriate word. Four alternatives are suggested; choose the correct alternative out of them as your answer.

The doctor has been ____ to attend to an urgent case.

- 1) called
- 2) called in
- 3) called by
- 4) call over

Correct option: 2)

Solution

The second option is the correct answer: called in.

"call in" means to ask for the services of a professional.

Therefore, the correct answer is "The doctor has been called in to attend to an urgent case."

Q48: In the following question, a sentence is given with a blank that is to be filled in with an appropriate word. Four alternatives are suggested; choose the correct alternative out of them as your answer.

Are you ___ stamp collecting?

- 1) interested by
- 2) interested in
- 3) interested at

4) interested about

Correct option: 2)

Solution

The second option is the correct answer: interested in.

The correct preposition that follows the adjective "interested" is "in." None of the other options fit the sentence.

Therefore, the answer is "Are you interested in stamp collecting?"

Q49: In the following question, the sentence given with a blank is to be filled in with an appropriate word. Select the correct alternative out of the four.

Moving to the city was eye _____ for the straitlaced country girl.

- 1) clearing
- 2) freeing
- 3) saving
- 4) opening

Correct option: 4)

Solution

The fourth option is the correct answer. In this context, "eye-opening" means that moving to the city provided the country girl with new experiences and perspectives, broadening her horizons and challenging her previous views.

All the other words don't match the context.

So the complete sentence would be: "Moving to the city was eye-opening for the straitlaced country girl."

Q50: In the following question, a sentence is given with a blank that is to be filled in with an appropriate word. Four alternatives are suggested; choose the correct alternative out of them as your answer.

The bank decided to _____ them the money as they were reliable clients.

- 1) let
- 2) lend
- 3) borrow
- 4) lease

Correct option: 2)

Solution

The second option is the correct answer: lend.

let: to allow someone to use or occupy something, often temporarily.

lend: to give something to someone with the expectation of getting it back, typically money or an item.

borrow: to take something from someone with the intention of returning it, typically money or an item.

lease: to rent or hire something, such as property or equipment, for a specified period in exchange for payment.

Therefore, the corrected sentence is "The bank decided to lend them the money as they were reliable clients."

Q51: In the following question, the sentence given with a blank is to be filled in with an appropriate word. Select the correct alternative out of the four.

With a blood test, a physician was able to _____ the woman's pregnancy.

- 1) term
- 2) confirm
- 3) firm

4) confer

Correct option: 2)

Solution

The second option is the correct option. The word "confirm" is the most appropriate choice in this context because it means to establish the truth or correctness of something, which is exactly what the physician does with the blood test – they determine whether or not the woman is pregnant.

Term: It typically refers to a specific period

Confer: "Confer" means to grant or bestow something, such as an honour or title, upon someone.

Firm: stronghold or belief in something or someone. All these don't fit in the context.

So the correct sentence is "With a blood test, a physician was able to confirm the woman's pregnancy."

Q52: In the following question, a sentence is given with a blank that is to be filled in with an appropriate word. Four alternatives are suggested; choose the correct alternative out of them as your answer.

Do not ____ your own personal views upon the reader.

- 1) expose
- 2) interpose
- 3) express
- 4) impose

Correct option: 4)

Solution

The fourth option is the correct answer: impose.

Expose: To reveal or make something visible or known, often something hidden or concealed.

Interpose: To place or insert something between two things or people; to intervene in a conversation or situation.

Express: To convey or communicate feelings, thoughts, or information; to show or make something known clearly.

Impose: To establish or apply a rule, law, tax, or obligation on someone; to force or place a burden on someone.

Therefore, the correct answer is "Do not impose your own personal views upon the reader."

Q53: In the following question, a sentence is given with a blank that is to be filled in with an appropriate word. Four alternatives are suggested; choose the correct alternative out of them as your answer.

Legislation was passed to punish brokers who _____ their client's funds.

- 1) devastate
- 2) devour
- 3) defalcate
- 4) dawdle

Correct option: 3)

Solution

The third option is the correct answer: defalcate.

Devastate: To cause severe destruction or damage.

Devour: To consume something with great eagerness, often with greed.

Defalcate: To embezzle funds that have been entrusted to someone.

Dawdle: To waste time or move slowly, often aimlessly or without purpose.

Therefore, the correct sentence is "Legislation was passed to punish brokers who defalcate their client's funds."

Q54: In the following question, the sentence given with a blank is to be filled in with an appropriate word. Select the correct alternative out of the four.

He ___ to the problem of air pollution in his speech.

- 1) averted
- 2) adverted
- 3) exclaimed
- 4) mentioned

Correct option: 2)

Solution

The second option is the correct answer. "Adeverted" means "refer to in speaking or writing", which matches with the context of the question.

Exclaimed: This means to cry out or shout.

Averted: This means to prevent or avoid.

Mentioned: It means just to point out.

All these don't fit in the context. So the correct sentence is "He averted the problem of air pollution in his speech."

Q55: In the following question, the sentence given with a blank is to be filled in with an appropriate word. Select the correct alternative out of the four.

Rohan is so magnanimous that everyone is always ___ to help him in his project.

- 1) eager
- 2) enthusiastic

3) reluctant

4) ignorant

Correct option: 1)

Solution

The first option is the correct answer. In this context, "eager" means willing and ready to help Rohan in his project because he is generous and magnanimous. The other options do not convey the same meaning. The other options:

Enthusiastic: Having or showing intense interest

Reluctant: This means unwilling or hesitant, which is the opposite of what the sentence is trying to convey.

Ignorant: This means lacking knowledge or awareness, and it doesn't fit the context of people's willingness to help Rohan because he is generous.

So the complete sentence would be: "Rohan is so magnanimous that everyone is always eager to help him in his project."

Q56: In the following question, a sentence is given with a blank that is to be filled in with an appropriate word. Four alternatives are suggested; choose the correct alternative out of them as your answer.

The mother looked _____ as her child began to walk much before the month prescribed by the doctors.

1) Astonishingly

2) Predictably

3) Irately

4) Menacingly

Correct option: 1)

Solution

To complete the sentence correctly, we need a word that conveys how the mother looked or felt in this situation. The word "astonishingly" is appropriate here. It means in a manner that causes astonishment or great surprise, which fits the context of the mother's reaction to her child's early walking.

So, the correct sentence is: "The mother looked astonishingly as her child began to walk much before the month prescribed by the doctors."

Q57: In the following question, a sentence is given with a blank that is to be filled in with an appropriate word. Four alternatives are suggested; choose the correct alternative out of them as your answer.

Many important projects have reached the final stage of _____.

- 1) Accomplishment
- 2) Initiation
- 3) Resolution
- 4) Implementation

Correct option: 3)

Solution

To complete the sentence correctly, we need a word that conveys that these projects have reached the final stage where conclusions or solutions are being determined. The word "resolution" fits here. In the context of projects, it refers to reaching a final decision or finding a solution.

So, the correct sentence is: "Many important projects have reached the final stage of resolution."

Q58: In the following question, the sentence given with a blank is to be filled in with an appropriate word. Select the correct alternative out of the four.

He was sworn ____ as the Prime Minister of our country.

- 1) in
- 2) off
- 3) about
- 4) out

Correct option: 1)

Solution

The correct option is the first option. The correct and standard preposition to use when someone takes an official oath to assume a position or office is "in." Therefore, "sworn in" is the appropriate choice in this sentence.

"out" - "Sworn out" is not a standard phrase in this context either. "about" - "Sworn about" is not a standard English phrase or preposition. "off" - "Sworn off" is a phrasal verb that means to make a firm decision to stop doing something, like giving up a habit or activity. These options do not fit in with the sentence.

So the correct sentence is "He was sworn in as the Prime Minister of our country."

Q59: In the following question, the sentence given with a blank is to be filled in with an appropriate word. Select the correct alternative out of the four.

The elephant stampeded and tore _____ the streets.

- 1) on
- 2) out
- 3) off
- 4) down

Correct option: 4)

Solution

The fourth option is the correct answer. In this context, "down" is used to indicate that the elephant ran forcefully through the streets, causing destruction along the way. It conveys the idea that the elephant moved in a downward direction along the streets.

"Off": "Tore off" typically means to remove something quickly or forcefully.

"Out": While "tore out" is a valid phrase that can be used to describe destruction, it doesn't work as well in this context because it doesn't specifically convey the idea of the elephant's movement through the streets

"On" is used to indicate being physically supported by something or being in a specific location,

So the complete sentence would be: "The elephant stampeded and tore down the streets."

Q60: In this question, a part of the sentence is in bold. Below are given alternatives to the bold part at 1, 2 and 3 which may improve the sentence. Choose the correct alternative. In case no improvement is needed your answer is (4)

Please switch of the fan.

- 1 switch off
- 2 switch in
- 3 switch out
- 4 No Improvement

1) 1

2) 2

3) 3

4) 4

Correct option: 1)

Solution

The correct phrasal verb to use in this context is "switch off," which means to stop the operation of a device.

"Switch out" is a phrasal verb that typically means to replace or exchange something with another.

"Switch in" and "switch out" do not convey the intended meanings in this context.

So, the correct sentence should be: "Please switch off the fan."

Q61: Select the most appropriate option to fill in the blank.

The doctor _____ two tablets per day.

- 1) prescribed
- 2) advised
- 3) ordered
- 4) proposed

Correct option: 1)

Solution

The correct answer is the first option i.e. "prescribed".

It is commonly used in a medical context when a doctor recommends or specifies a treatment, including the dosage of medication. It means to recommend and specify the use of a particular medicine, treatment, or remedy.

The meanings of other options are as follows:

Advised: To offer suggestions or guidance.

Ordered: To give a command or instruction.

Proposed: To suggest or put forward an idea.

Therefore, the complete sentence is "The doctor prescribed two tablets per day."

Q62: In the question, a part of the sentence is in bold. Below are given alternatives to the bold part at 1, 2 and 3 that may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is (4).

The new book written by Vikram Seth has become very populous.

- 1 populist
- 2 popular
- 3 populace
- 4 No Improvement

1) 1

2) 2

3) 3

4) 4

Correct option: 2)

Solution

In this sentence, there is a vocabulary error. The word "populous" means densely populated with people, which does not fit the context of a book becoming popular.

"Popular" is the correct alternative because it describes that the book has been widely liked or admired. "Populist" refers to a political movement or leader representing the interests of ordinary people, and "Populace" refers to the general population of people.

So, the correct sentence should be: "The new book written by Vikram Seth has become very popular."

Q63: In the question, a part of the sentence is in bold. Below are given alternatives to the bold part at 1, 2 and 3 that may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is (4).

She has no pen to write.

- (1) write with
- (2) write at
- (3) write in
- (4) No Improvement

- 1) 1
- 2) 2
- 3) 3
- 4) 4

Correct option: 1)

Solution

In this sentence, the word "write" is used correctly, but it needs a preposition to complete the sentence and to specify the purpose of having the pen.

"Write with" is the correct alternative because it provides the appropriate preposition as with is used for objects and conveys that she has no pen with which to write.

"Write at" and "write in" are not suitable in this context.

So, the correct sentence should be: "She has no pen to write with".

Q64: In the following question, some parts of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If the sentence is free from error, select 'No Error'.

I was (1) / laying down (2) / when the door bell rang. (3) / No Error (4)

- 1) (1)

2) (2)

3) (3)

4) (4)

Correct option: 2)

Solution

The error lies in the second part of the sentence.

The phrasal verb "lie down" means to be in a position in which your body is flat and its present participle form "lying down" is the correct usage according to the context of the sentence, as it helps in conveying the intended meaning that the speaker was laying in a flat position when the doorbell rang.

Therefore, the correct sentence is, "I was lying down when the doorbell rang."

Q65: In the following question, a sentence is given with a blank that is to be filled in with an appropriate word. Four alternatives are suggested; choose the correct alternative out of them as your answer.

Aristotle said that some persons are fit to rule, while others are fit to be ruled _____.

1) over

2) of

3) on

4) at

Correct option: 1)

Solution

The correct choice is the first option, "over."

The intended meaning of the sentence is that some people are fit to rule, and other people are ruled over by them. In the second option, "of" is the error of the preposition, as in this sentence, people always rule "over" other people and not "of" the people. Similarly, people cannot be ruled on or at.

Therefore, the complete sentence is, "Aristotle said that some persons are fit to rule, while others are fit to be ruled over."

Q66: Comprehension

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Tea prices in the domestic market continue to rule high in the (1) _____ year despite the expectation of higher production as compared to the previous year. According to a preliminary assessment (2) _____ on the weather (3) _____ in recent months, tea output in the next year may reach 800 tonnes as (4) _____ 780 tonnes last year. During the past three months, tea prices have shown an (5) _____. Unlike last year, when tea prices were dramatically low, this year, prices seem to have stabilised at rather high levels.

Question:

Select the most appropriate option to fill in the blank number 2.

- 1) shared
- 2) based
- 3) flown
- 4) carried

Correct option: 2)

Solution

The second option is the correct answer.

The phrase indicates that the missing word should be a verb that describes how the assessment is conducted. Based is the correct choice, as it means to establish or derive

from something that is commonly used in the context of assessments, studies, or analyses.

Q67: Comprehension

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Human migration may be traced all the way back to the (1)_____ of time, and humans have been on the move ever since. Climate change, war and displacement, economic considerations, living conditions, family and clan (2)_____, and, more recently, educational possibilities are all reasons for migration. Because there are several reasons for migration, migration patterns are (3)_____. Potential migrants will not only (4)_____ whether or not to migrate, but also where they will go. Individuals with (5) _____ observed and unobserved features will make diverse decisions and self-select into specific areas.

Select the most appropriate option to fill in the blank number 3.

- 1) assorted
- 2) uniform
- 3) diverse
- 4) constant

Correct option: 3)

Solution

The third option is the correct choice.

Diverse means something that comprises a range of different elements. In the context of migration patterns, diverse accurately reflects the idea that there are various reasons and factors contributing to human migration.

The meanings of other options are as follows:

Assorted means are made up of various types.

Uniform means unchanging or consistent.

Constant means unchanging or consistent.

Therefore, the correct answer is diverse.

Q68: Comprehension

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Human migration may be traced all the way back to the (1)_____ of time, and humans have been on the move ever since. Climate change, war and displacement, economic considerations, living conditions, family and clan (2)_____, and, more recently, educational possibilities are all reasons for migration. Because there are several reasons for migration, migration patterns are (3)_____. Potential migrants will not only (4)_____ whether or not to migrate, but also where they will go. Individuals with (5) _____ observed and unobserved features will make diverse decisions and self-select into specific areas.

Select the most appropriate option to fill in the blank number 5.

- 1) considering
- 2) varying
- 3) convincing
- 4) experiencing

Correct option: 2)

Solution

The second option is the correct choice.

Varying means showing diversity or differences. In the context of the sentence, the term varying accurately conveys the idea that individuals have diverse and differing characteristics.

The meanings of other options are as follows:

Considering means thinking about or taking into account.

Convincing means persuading or influencing.

Experiencing means undergoing or living through something.

Therefore, the correct answer is varying.

Q69: Comprehension

In the following passage, some of the words have been deleted. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

According to the Integrated Taxonomic Information System (ITIS), there are more than 60 (1)_____ of rat, which means they come in all sizes. They are (2)_____ 5 inches (12 centimeters), or longer, according to Encyclopedia Britannica. The largest species is the Bosavi woolly rat, which was (3)_____ in 2009 in the rainforest of Papua New Guinea (and doesn't have a scientific name yet). It is (4)_____ the size of a cat — 32.2 inches (82 cm) from nose to tail and (5)_____ around 3.3 lbs. (1.5 kilograms), according to CNN.

Question: Select the most appropriate option to fill in the blank number 4.

- 1) a lot
- 2) of
- 3) about
- 4) some

Correct option: 3)

Solution

The third option is the correct answer.

The sentence describes the Bosavi woolly rat as being "about the size of a cat", indicating an estimated or close similarity in dimensions. About is the most suitable

word in this context, as it captures the idea that the rat's size is approximately the same as that of a cat without specifying an exact measurement.

Q70: Comprehension

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Comics have (1) _____ many superheroes. Bantul, the great, was (2) _____ in the year 1965, in the backdrop of the Indo-Pak war. Indrajal comics was set up in 1964, and (3) _____ Aabid Surti, who gave birth to a character called Bhadur in 1976, wearing kurta and jeans. Raj comics too (4) _____ into this sphere with their (5) _____ toons Nagraj, Tiranga, and Shakti together called Brahman Rakshak (protectors of the universe).

Select the most appropriate option to fill in the blank number 5.

- 1) noted
- 2) influential
- 3) famous
- 4) good

Correct option: 3)

Solution

The passage discusses various comic book superheroes introduced by different publishers. The context implies that the superheroes introduced by Raj comics—Nagraj, Tiranga, and Shakti—are being referred to. The word famous fits well here, as it suggests that these toons or characters are well-known or widely recognised among comic book readers.

The meanings of the other options are as follows:

Noted means recognised or well-known for a particular quality or achievement.

Influential means having the capacity to influence or impact something or someone significantly.

Good signifies positive quality or proficiency.

Therefore, the correct answer is famous.

Q71: Comprehension

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Comics have (1) _____ many superheroes. Bantul, the great, was (2) _____ in the year 1965, in the backdrop of the Indo-Pak war. Indrajal comics was set up in 1964, and (3) _____ Aabid Surti, who gave birth to a character called Bhadur in 1976, wearing kurta and jeans. Raj comics too (4) _____ into this sphere with their (5) _____ toons Nagraj, Tiranga, and Shakti together called Brahman Rakshak (protectors of the universe).

Select the most appropriate option to fill in the blank number 4.

- 1) invaded
- 2) penetrated
- 3) entered
- 4) pierced

Correct option: 3)

Solution

"Raj comics too entered into this sphere with their." The word entered fits well in the context and meaning of the sentence. It implies that Raj Comics also joined or became part of this field or sphere of superheroes.

The meanings of the other options are as follows:

Invaded: This means forcefully entering a place or situation, usually with negative connotations.

Penetrated: This also means entering or passing through.

Pierced: This refers to making a hole or passing through something physically.

Therefore, the correct answer is entered.

Q72: In the following question, a sentence is given with a blank that is to be filled in with an appropriate word. Four alternatives are suggested; choose the correct alternative out of them as your answer.

You think you're really hard, ___?

- 1) doesn't you
- 2) do you
- 3) didn't you
- 4) don't you

Correct option: 4)

Solution

The option 'do you' is incorrect since a negative question tag is always used with a positive statement; 'doesn't you' is grammatically wrong; and 'didn't you' changes the tense of the sentence and hence, is incorrect to use in the context of the sentence.

So, the final complete sentence is "You think you're really hard, don't you?".

Q73: In the following question, a sentence is given with blanks that are to be filled in with appropriate words. Four alternatives are suggested; choose the correct alternative out of them as your answer.

There were so many _____ points in his speech that the audience _____ to get the message.

- 1) Superficial, listened
- 2) Interesting, tried
- 3) Irrelevant, failed
- 4) Relevant, hastened

Correct option: 3)

Solution

The third option is the correct choice.

"Irrelevant" means not related or not applicable to the topic or context and "failed" means unsuccessful.

The meanings of the other options are as follows:

Relevant: Something is related to or connected to the topic or situation being discussed.

Hastened: Something is made to happen quickly or is sped up.

Interesting: When something is interesting, attention is grabbed, and curiosity arises.

Tried: It is the participle form of "try", which means to make an attempt to do something.

Superficial: Something is on the surface and lacks depth or importance. It is not deep or meaningful.

Listened: It is the participle form of "listen" which means to make an effort to hear something.

Therefore, the complete sentence is "There were so many irrelevant points in his speech that the audience failed to get the message".

Q74: Fill in the blank with the most appropriate option.

I am allowed to take photographs inside the church, _____?

- 1) shall I
- 2) aren't I
- 3) am I
- 4) can't I

Correct option: 2)

Solution

The correct choice is the second option.

Explanation:

This construction is a tag question used for seeking confirmation or agreement. In this context, "aren't I" is used because the preceding statement is positive ("I am allowed to take photographs inside the church"), and the tag question seeks confirmation by using a negative contraction. It's a way of asking if the statement is correct or seeking affirmation.

Therefore, the complete sentence would be: "I am allowed to take photographs inside the church, aren't I?"

Q75: Fill in the blank with the most appropriate word.

You have memorised your speech, _____ you?

- 1) hasn't
- 2) couldn't
- 3) didn't
- 4) haven't

Correct option: 4)

Solution

The correct choice is the fourth option.

Explanation: A question tag is a short question used at the end of a statement. If a statement is positive, the question tag will be negative, and if the statement is negative, the question tag will be positive. Here, the statement is positive, so the question tag will be negative: "haven't you?" This construction maintains the polarity of the question tag in the whole sentence.

Therefore, the complete sentence is: "You have memorised your speech, haven't you?"

Q76: Select the most appropriate option to fill in the blank.

The travel agency has sent the hotel reservation details for _____ holiday.

- 1) ourselves
- 2) ours
- 3) our

4) us

Correct option: 3)

Solution

The word our is the possessive form of we and is used to indicate that the hotel reservation details are for the holiday belonging to the specified group of individuals. In this context, it correctly reflects ownership or possession, making the sentence grammatically accurate.

Therefore, the complete sentence would be: "The travel agency has sent the hotel reservation details for our holiday."

Q77: Select the most appropriate option to fill in the blank.

This tree no longer bears _____ fruit.

- 1) many
- 2) some
- 3) any
- 4) few

Correct option: 3)

Solution

The correct choice is the third option.

The word any is used in this context to convey that the tree does not produce fruit at all. By saying "This tree no longer bears any fruit", it emphasises the absence of fruit from the tree.

The other options don't convey the same sense of absence or lack in this context.

Q78: Choose the best word to fill in the blanks.

If your dream is to be a police officer, then you must work on your quick-temper and stop being so _____.

- 1) Truculent
- 2) Ubiquitous
- 3) Indeterminate
- 4) Incurable

Correct option: 1)

Solution

'Truculent' means 'quick to fight or argue'. Hence [1].

Q79: Choose the best word to fill in the blanks.

Question: The killer's wife begged the judge to give her husband _____ so he would be out of prison before she died.

- 1) Cognisance
- 2) Cessation
- 3) Clemency
- 4) Aversion

Correct option: 3)

Solution

'Clemency' means 'a decision not to punish someone severely.' Hence [3].

Q80: Comprehension

In the following passage, some words have been deleted. Read the passage carefully and

select the most appropriate option to fill in each blank.

A great fire (1)_____ in London in 1666, which (2)_____ the city and made around 1,00,000

people homeless. This fire is said to have begun in a pudding lane. It (3)_____ through the

crowded streets and wooden houses. However, after the fire, London was (4)___ with wider streets and improved water supplies. New buildings were (5)___ using bricks instead of wood.

Question:

Select the most appropriate option to fill in the blank no. 1.

- 1) broke for
- 2) broke in
- 3) broke out
- 4) broke at

Correct option: 3)

Solution

The correct choice is the third option.

Explanation: Broke out is the correct phrasal verb to describe the sudden beginning or eruption of a fire or conflict.

The meanings of the other options are as follows:

Broke for means to move or head in a particular direction with haste.

Broke in means forcibly entering a place, usually without permission.

Broke at doesn't commonly pair with "fire" and doesn't convey the idea of a fire starting or erupting.

Therefore, the correct answer is, broke out.

Q81: Comprehension

In the following passage, some words have been deleted. Read the passage carefully and

select the most appropriate option to fill in each blank.

A great fire (1)_____ in London in 1666, which (2)_____ the city and made around 1,00,000

people homeless. This fire is said to have begun in a pudding lane. It (3)_____ through the crowded streets and wooden houses. However, after the fire, London was (4)_____ with wider streets and improved water supplies. New buildings were (5)_____ using bricks instead of wood.

Question:

Select the most appropriate option to fill in the blank no. 2.

- 1) destroyed
- 2) smashed
- 3) shattered
- 4) demolished

Correct option: 1)

Solution

The correct choice is the first option.

Explanation: Destroyed is the most suitable word to convey the impact of the fire on the city. It means to cause severe damage or ruin something completely.

The meanings of the other options are as follows:

Smashed: This means to break something violently into pieces.

Shattered: This means to break something into numerous pieces or fragments.

Demolished: This means to completely destroy or tear down a building or structure.

Therefore, the correct answer is destroyed.

Q82: Comprehension

In the following passage, some words have been deleted. Read the passage carefully and

select the most appropriate option to fill in each blank.

A great fire (1)_____ in London in 1666, which (2)_____ the city and made around 1,00,000

people homeless. This fire is said to have begun in a pudding lane. It (3)_____ through the

crowded streets and wooden houses. However, after the fire, London was (4)___ with wider streets and improved water supplies. New buildings were (5)___ using bricks instead of wood.

Question:

Select the most appropriate option to fill in the blank no. 3.

- 1) glided
- 2) carried
- 3) swept
- 4) pulled

Correct option: 3)

Solution

The correct choice is the third option.

Explanation: "A great fire swept through the crowded streets and wooden houses." Swept, in this context, means that the fire moved rapidly and forcefully through the crowded streets and wooden houses, engulfing or spreading throughout the area. The meanings of the other options are as follows:

Glided means to move smoothly and gracefully.

Carried means to transport or convey something from one place to another.

Pulled means to drag or tug something towards oneself.

Therefore, the correct answer is swept.

Q83: Comprehension

In the following passage, some words have been deleted. Read the passage carefully and

select the most appropriate option to fill in each blank.

A great fire (1)_____ in London in 1666, which (2)_____ the city and made around 1,00,000

people homeless. This fire is said to have begun in a pudding lane. It (3)_____ through the

crowded streets and wooden houses. However, after the fire, London was (4)___ with wider streets and improved water supplies. New buildings were (5)___ using bricks instead of wood.

Question:

Select the most appropriate option to fill in blank no. 4.

- 1) rebuilt
- 2) innovated
- 3) modelled
- 4) restored

Correct option: 1)

Solution

The correct choice is the first option.

Explanation: In the context of the passage describing the aftermath of the fire in London in 1666, the word that best fits is rebuilt, signifying the construction of new buildings after the devastation caused by the fire. The other options don't align with the context of reconstructing the city after the fire.

The meanings of the other options are as follows:

Innovated: To introduce new methods or ideas.

Modelled: To create something based on a particular design or pattern.

Restored: To bring something back to its original or former state.

Therefore, the correct answer is rebuilt.

Q84: Comprehension

In the following passage, some of the words have been deleted. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

There are so many myths about the (1) _____ impacts of milk on health. Changing how much milk you drink because of (2) _____ myths may mean you are unnecessarily restricting this (3) _____ nutritious drink. Australians often restrict dairy foods when they try to (4) _____ weight believing them to be fattening. While dairy products naturally contain fat there are many reduced fat products (5) _____.

Question

Select the most appropriate option to fill in the blank number 1.

- 1) kind
- 2) welcoming
- 3) impolite
- 4) negative

Correct option: 4)

Solution

The fourth option is the correct answer.

The word, negative fits well in the context of the passage, which discusses myths about the impacts of milk on health. The phrase "negative impacts" suggests that there are misconceptions or false beliefs about the adverse effects of milk.

The meanings of the other options are as follows:

Kind means showing benevolence or gentleness.

Welcoming means creating an inviting atmosphere.

Impolite means lacking politeness or courtesy.

Q85: Comprehension

In the following passage, some of the words have been deleted. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

There are so many myths about the (1) _____ impacts of milk on health. Changing how much milk you drink because of (2) _____ myths may mean you are unnecessarily restricting this (3) _____ nutritious drink. Australians often restrict dairy foods when they try to (4) _____ weight believing them to be fattening. While dairy products naturally contain fat there are many reduced fat products (5) _____.

Question

Select the most appropriate option to fill in the blank number 2.

- 1) those
- 2) thus
- 3) these
- 4) this

Correct option: 3)

Solution

The third option is the correct answer.

The word "these" fits the context, indicating that the myths mentioned in the passage are influencing people's decisions about how much milk to drink. "These myths" refers back to the myths introduced in the passage.

Q86: Comprehension

In the following passage, some of the words have been deleted. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

There are so many myths about the (1) _____ impacts of milk on health. Changing how much milk you drink because of (2) _____ myths may mean you are unnecessarily restricting this (3) _____ nutritious drink. Australians often restrict dairy foods when they try to (4) _____ weight believing them to be fattening. While dairy products naturally contain fat there are many reduced fat products (5) _____.

Question

Select the most appropriate option to fill in the blank number 5.

- 1) inoperable
- 2) deficient
- 3) durable
- 4) available

Correct option: 4)

Solution

The fourth option is the correct answer.

The word, available fits the context of describing the variety and accessibility of such products. It appropriately conveys the idea that there are numerous reduced-fat dairy products accessible or obtainable on the market.

The meanings of the other options are as follows:

Inoperable means not functioning or operational.

Deficient means lacking in some essential quality.

Durable to be able to withstand wear, pressure, or damage.

Q87: Comprehension

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

India is one of the largest producers of tea in the world. The industry is (1) _____ recognised as technically very well (2) _____. The Indian tea industry is a (3) _____ one traditionally. Tea has been used in India for (4) _____ purposes as well as for (5) _____.

Question

Select the most appropriate option to fill in the blank number 1.

- 1) globally
- 2) tediously
- 3) industrially
- 4) mutually

Look for an adverb that appropriately describes the nature of the industry.

Correct option: 1)

Solution

The correct option to fill in the blank is the first option.

Explanation: In this context, considering the broader scope of the tea industry, the term globally fits well. It indicates that the industry is recognised not only at the national level but on a global scale. It conveys that the Indian tea industry is recognised globally as technically very good.

So, the correct sentence would be: "The industry is globally recognised as technically very well."

The meaning of the other options are as follows:

Industrially: This adverb means actions, processes, or characteristics associated with industry.

Tediously: This adverb means in a tedious or laborious manner.

Mutually: This adverb means in a mutual or shared manner.

Q88: Read the passage given below and then answer the questions given below the passage. Some words may be highlighted for your attention. Read carefully.

Air pollution has jumped to number five spot amongst the top killers in India. Releasing India-specific data, the Global Burden of Disease (GBD) warned that outdoor air pollution caused 8,27,000 deaths and 17.7 million healthy years of life in 2010

Worldwide, outdoor air pollution caused 3.2 million premature deaths and over 74 million years of healthy life in 2010

A substantial rise in cardiovascular diseases, strokes and chronic obstructive pulmonary diseases in India in 2010 are directly attributed to the rising levels of particulate matter pollution.

Two-thirds of the rising disease graphs worldwide are found in South Asia.

Dr. Vinod Raina, heading the oncology wing at AIIMS, confirmed that 'we are getting 10 lakh new cancer cases every year, out of which approximately one lakh are lung cancer cases. We still have to quantify how many of these lung cancer cases are pollution-related:

Dr. Aaron Cohen, principal scientist, Health Effects Institute, Boston, and chairperson of the Air Pollution Group at Institute for Health Metrics and Evaluation for Global Burden of Disease pointed out that a study of lung cancer amongst non-smokers had shown a 60 per cent increase caused by air pollution.

Prof. S. K. Chhabra, heading the department of cardio-respiratory physiology at the Vallabhbhai Patel Chest Institute, warned against the risk from new generation pollutants, especially ozone that is currently responsible for a four per cent increase in mortality rates.

'Ozone has become a key ingredient of urban smog', said Prof. Chhabra.

Prof. Randeep Guleria, head of the pulmonary unit at AIIMS, highlighted how indoor air pollution had emerged as another major killer amongst women using biomass for their cooking requirements. 'Women in the Gujjar community suffer a high incidence of cancer caused by indoor air pollution': Prof. Guleria explained.

Allergies, respiratory diseases, bronchitis, asthma, etc. were all caused by air pollution. The harmful fumes from vehicles are a major cause of air pollution.

The India-related data was calculated from the largest global database ever assembled using India-specific levels of baseline mortality and incidence of five leading causes of death in India and was released at a workshop organised by ICMR and CSE.

The 2010 GBD was produced by a rigorous scientific process involving 150 global experts led by the Institute of Health Metrics and Evaluation along with WHO and Harvard University.

Question

The Global Burden of Disease warned that

- 1) Healthy people had become unhealthy
- 2) Obesity was a killer
- 3) People had increased the use of fossil fuels
- 4) Many healthy years of life were lost due to air pollution

Correct option: 4)

Solution

The Global Burden of Disease (GBD) warned that outdoor air pollution caused 8,27,000 deaths and was the cause of the loss of 17.7 million healthy years of life in 2010. This is stated very clearly in the first paragraph. As a result, option (4) is the only correct option, and the others must be eliminated.

Q89. Read the passage given below and then answer the questions given below the passage. Some words may be highlighted for your attention. Read carefully.

Air pollution has jumped to number five spot amongst the top killers in India. Releasing India-specific data, the Global Burden of Disease (GBD) warned that outdoor air pollution caused 8,27,000 deaths and 17.7 million healthy years of life in 2010

Worldwide, outdoor air pollution caused 3.2 million premature deaths and over 74 million years of healthy life in 2010

A **substantial** rise in cardiovascular diseases, strokes and **chronic** obstructive pulmonary diseases in India in 2010 are directly attributed to the rising levels of particulate matter pollution.

Two-thirds of the rising disease graphs worldwide are found in South Asia.

Dr. Vinod Raina, heading the oncology wing at AIIMS, confirmed that 'we are getting 10 lakh new cancer cases every year, out of which approximately one lakh are lung cancer cases. We still have to quantify how many of these lung cancer cases are pollution-related:

Dr. Aaron Cohen, principal scientist, Health Effects Institute, Boston, and chairperson of the Air Pollution Group at Institute for Health Metrics and Evaluation for Global Burden of Disease pointed out that a study of lung cancer amongst non-smokers had shown a 60 per cent increase caused by air pollution.

Prof. S. K. Chhabra, heading the department of cardio-respiratory physiology at the Vallabhbhai Patel Chest Institute, warned against the risk from new generation pollutants, especially ozone that is currently responsible for a four per cent increase in mortality rates.

'Ozone has become a key ingredient of urban smog', said Prof. Chhabra.

Prof. Randeep Guleria, head of the pulmonary unit at AIIMS, highlighted how indoor air pollution had **emerged** as another major killer amongst women using biomass for their cooking requirements. 'Women in the Gujjar community suffer a high incidence of cancer caused by indoor air pollution': Prof. Guleria explained.

Allergies, respiratory diseases, bronchitis, asthma, etc. were all caused by air pollution. The harmful fumes from vehicles are a major cause of air pollution.

The India-related data was calculated from the largest global database ever assembled using India-specific levels of baseline mortality and incidence of five leading causes of death in India and was released at a workshop organised by ICMR and CSE.

The 2010 GBD was produced by a rigorous scientific process involving 150 global experts led by the Institute of Health Metrics and Evaluation along with WHO and Harvard University.

Question

What does the 60% rise in lung cancer cases in non-smokers indicate?

- 1) Non-smokers are careless about their health.
- 2) Non-smokers are secretly smoking.
- 3) Air pollution has become a major cause of lung cancer.

4) The data collected on the rise in lung cancer is inaccurate.

Correct option: 3)

Solution

Refer to the following passage: "...pointed out that a study of lung cancer among nonsmokers had revealed an 80% increase caused by air pollution." This demonstrates that "a study of lung cancer among nonsmokers revealed a 60% increase caused by air pollution." As a result, option (3) is the only correct option, and the others must be eliminated.

Q90. Read the passage given below and then answer the questions given below the passage. Some words may be highlighted for your attention. Read carefully.

Air pollution has jumped to number five spot amongst the top killers in India. Releasing India-specific data, the Global Burden of Disease (GBD) warned that outdoor air pollution caused 8,27,000 deaths and 17.7 million healthy years of life in 2010

Worldwide, outdoor air pollution caused 3.2 million premature deaths and over 74 million years of healthy life in 2010

A **substantial** rise in cardiovascular diseases, strokes and **chronic** obstructive pulmonary diseases in India in 2010 are directly attributed to the rising levels of particulate matter pollution.

Two-thirds of the rising disease graphs worldwide are found in South Asia.

Dr. Vinod Raina, heading the oncology wing at AIIMS, confirmed that 'we are getting 10 lakh new cancer cases every year, out of which approximately one lakh are lung cancer cases. We still have to quantify how many of these lung cancer cases are pollution-related:

Dr. Aaron Cohen, principal scientist, Health Effects Institute, Boston, and chairperson of the Air Pollution Group at Institute for Health Metrics and Evaluation for Global Burden of Disease pointed out that a study of lung cancer amongst non-smokers had shown a 60 per cent increase caused by air pollution.

Prof. S. K. Chhabra, heading the department of cardio-respiratory physiology at the Vallabhbhai Patel Chest Institute, warned against the risk from new generation

pollutants, especially ozone that is currently responsible for a four per cent increase in mortality rates.

'Ozone has become a key ingredient of urban smog', said Prof. Chhabra.

Prof. Randeep Guleria, head of the pulmonary unit at AIIMS, highlighted how indoor air pollution had **emerged** as another major killer amongst women using biomass for their cooking requirements. 'Women in the Gujjar community suffer a high incidence of cancer caused by indoor air pollution': Prof. Guleria explained.

Allergies, respiratory diseases, bronchitis, asthma, etc. were all caused by air pollution. The harmful fumes from vehicles are a major cause of air pollution.

The India-related data was calculated from the largest global database ever assembled using India-specific levels of baseline mortality and incidence of five leading causes of death in India and was released at a workshop organised by ICMR and CSE.

The 2010 GBD was produced by a rigorous scientific process involving 150 global experts led by the Institute of Health Metrics and Evaluation along with WHO and Harvard University.

Question

What are the consequences of rising levels of particulate matter pollution?

- A. Rise in cardiovascular diseases
- B. Rise in strokes
- C. Rise in obesity

- 1) Only A
- 2) Only B
- 3) Only C
- 4) Only A and B

Correct option: 4)

Solution

Rising levels of particulate matter pollution are directly responsible for a significant increase in cardiovascular diseases, strokes, and chronic obstructive pulmonary diseases in India in 2010. As a result, option (4) is correct.

Q91. Read the passage given below and then answer the questions given below the passage. Some words may be highlighted for your attention. Read carefully.

Air pollution has jumped to number five spot amongst the top killers in India. Releasing India-specific data, the Global Burden of Disease (GBD) warned that outdoor air pollution caused 8,27,000 deaths and 17.7 million healthy years of life in 2010

Worldwide, outdoor air pollution caused 3.2 million premature deaths and over 74 million years of healthy life in 2010

A **substantial** rise in cardiovascular diseases, strokes and **chronic** obstructive pulmonary diseases in India in 2010 are directly attributed to the rising levels of particulate matter pollution.

Two-thirds of the rising disease graphs worldwide are found in South Asia.

Dr. Vinod Raina, heading the oncology wing at AIIMS, confirmed that 'we are getting 10 lakh new cancer cases every year, out of which approximately one lakh are lung cancer cases. We still have to quantify how many of these lung cancer cases are pollution-related:

Dr. Aaron Cohen, principal scientist, Health Effects Institute, Boston, and chairperson of the Air Pollution Group at Institute for Health Metrics and Evaluation for Global Burden of Disease pointed out that a study of lung cancer amongst non-smokers had shown a 60 per cent increase caused by air pollution.

Prof. S. K. Chhabra, heading the department of cardio-respiratory physiology at the Vallabhbhai Patel Chest Institute, warned against the risk from new generation pollutants, especially ozone that is currently responsible for a four per cent increase in mortality rates.

'Ozone has become a key ingredient of urban smog', said Prof. Chhabra.

Prof. Randeep Guleria, head of the pulmonary unit at AIIMS, highlighted how indoor air pollution had **emerged** as another major killer amongst women using biomass for their cooking requirements. 'Women in the Gujjar community suffer a high incidence of cancer caused by indoor air pollution': Prof. Guleria explained.

Allergies, respiratory diseases, bronchitis, asthma, etc. were all caused by air pollution. The harmful fumes from vehicles are a major cause of air pollution.

The India-related data was calculated from the largest global database ever assembled using India-specific levels of baseline mortality and incidence of five leading causes of death in India and was released at a workshop organised by ICMR and CSE.

The 2010 GBD was produced by a rigorous scientific process involving 150 global experts led by the Institute of Health Metrics and Evaluation along with WHO and Harvard University.

Question

Why is ozone a dangerous new-generation pollutant?

- A. It is a major constituent of urban smog.
- B. It is responsible for a four per cent increase in mortality rates.
- C. It is highly toxic.

- 1) Only A
- 2) Only B
- 3) Only C
- 4) Only A and B

Correct option: 4)

Solution

Ozone is currently responsible for a 4% rise in mortality rates. Prof. Chhabra stated, "Ozone has become a key component of urban smog." As a result, all of the other options must be eliminated. As a result, option (4) is correct.

Q92. Read the passage given below and then answer the questions given below the passage. Some words may be highlighted for your attention. Read carefully.

Air pollution has jumped to number five spot amongst the top killers in India. Releasing India-specific data, the Global Burden of Disease (GBD) warned that outdoor air pollution caused 8,27,000 deaths and 17.7 million healthy years of life in 2010

Worldwide, outdoor air pollution caused 3.2 million premature deaths and over 74 million years of healthy life in 2010

A **substantial** rise in cardiovascular diseases, strokes and **chronic** obstructive pulmonary diseases in India in 2010 are directly attributed to the rising levels of particulate matter pollution.

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Prof. S. K. Chhabra, heading the department of cardio-respiratory physiology at the Vallabhbhai Patel Chest Institute, warned against the risk from new generation pollutants, especially ozone that is currently responsible for a four per cent increase in mortality rates.

'Ozone has become a key ingredient of urban smog', said Prof. Chhabra.

Prof. Randeep Guleria, head of the pulmonary unit at AIIMS, highlighted how indoor air pollution had **emerged** as another major killer amongst women using biomass for their cooking requirements. 'Women in the Gujjar community suffer a high incidence of cancer caused by indoor air pollution': Prof. Guleria explained.

Allergies, respiratory diseases, bronchitis, asthma, etc. were all caused by air pollution. The harmful fumes from vehicles are a major cause of air pollution.

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The 2010 GBD was produced by a rigorous scientific process involving 150 global experts led by the Institute of Health Metrics and Evaluation along with WHO and Harvard University.

Question

Which of the following is the opposite of the word 'chronic' given in bold in the above passage?

- 1) Prolonged
- 2) Enduring
- 3) Long lasting
- 4) Fleeting

Correct option: 4)

Solution

'Chronic' means continuing for a long time or for a longer period of time than usual. Its antonym is 'fleeting,' which means having a very short lifespan.

'Chronic' has synonyms such as enduring, long-lasting, and continuing. As a result, all of these options must be eliminated. As a result, option (4) is correct.

Q93. Read the passage given below and then answer the questions given below the passage. Some words may be highlighted for your attention. Read carefully.

Air pollution has jumped to number five spot amongst the top killers in India. Releasing India-specific data, the Global Burden of Disease (GBD) warned that outdoor air pollution caused 8,27,000 deaths and 17.7 million healthy years of life in 2010

Worldwide, outdoor air pollution caused 3.2 million premature deaths and over 74 million years of healthy life in 2010

A **substantial** rise in cardiovascular diseases, strokes and **chronic** obstructive pulmonary diseases in India in 2010 are directly attributed to the rising levels of particulate matter pollution.

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Allergies, respiratory diseases, bronchitis, asthma, etc. were all caused by air pollution. The harmful fumes from vehicles are a major cause of air pollution.

The India-related data was calculated from the largest global database ever assembled using India-specific levels of baseline mortality and incidence of five leading causes of death in India and was released at a workshop organised by ICMR and CSE.

The 2010 GBD was produced by a rigorous scientific process involving 150 global experts led by the Institute of Health Metrics and Evaluation along with WHO and Harvard University.

Question

Which of the following sentence/s is true about women in the Gujjar community?

- A. They use biomass for cooking.
- B. They are highly prone to cancer because of indoor air pollution.
- C. They are concerned about the pollution caused by biomass.

1) Only A

2) Only A and B

3) Only B

4) Only C

Correct option: 2)

Solution

Indoor air pollution is a major killer among women who use biomass for cooking. According to the passage, women in the Gujjar community have a high incidence of cancer, which is caused by indoor air pollution. As a result, it is obvious that options (1),(3), and (4) must be removed.

As a result, option (2) is correct.

Q94. Read the passage given below and then answer the questions given below the passage. Some words may be highlighted for your attention. Read carefully.

Air pollution has jumped to number five spot amongst the top killers in India. Releasing India-specific data, the Global Burden of Disease (GBD) warned that outdoor air pollution caused 8,27,000 deaths and 17.7 million healthy years of life in 2010

Worldwide, outdoor air pollution caused 3.2 million premature deaths and over 74 million years of healthy life in 2010

A **substantial** rise in cardiovascular diseases, strokes and **chronic** obstructive pulmonary diseases in India in 2010 are directly attributed to the rising levels of particulate matter pollution.

Two-thirds of the rising disease graphs worldwide are found in South Asia.

Dr. Vinod Raina, heading the oncology wing at AIIMS, confirmed that 'we are getting 10 lakh new cancer cases every year, out of which approximately one lakh are lung cancer cases. We still have to quantify how many of these lung cancer cases are pollution-related:

Dr. Aaron Cohen, principal scientist, Health Effects Institute, Boston, and chairperson of the Air Pollution Group at Institute for Health Metrics and Evaluation for Global Burden

of Disease pointed out that a study of lung cancer amongst non-smokers had shown a 60 per cent increase caused by air pollution.

Prof. S. K. Chhabra, heading the department of cardio-respiratory physiology at the Vallabhbhai Patel Chest Institute, warned against the risk from new generation pollutants, especially ozone that is currently responsible for a four per cent increase in mortality rates.

'Ozone has become a key ingredient of urban smog', said Prof. Chhabra.

Prof. Randeep Guleria, head of the pulmonary unit at AIIMS, highlighted how indoor air pollution had **emerged** as another major killer amongst women using biomass for their cooking requirements. 'Women in the Gujjar community suffer a high incidence of cancer caused by indoor air pollution': Prof. Guleria explained.

Allergies, respiratory diseases, bronchitis, asthma, etc. were all caused by air pollution. The harmful fumes from vehicles are a major cause of air pollution.

The India-related data was calculated from the largest global database ever assembled using India-specific levels of baseline mortality and incidence of five leading causes of death in India and was released at a workshop organised by ICMR and CSE.

The 2010 GBD was produced by a rigorous scientific process involving 150 global experts led by the Institute of Health Metrics and Evaluation along with WHO and Harvard University.

Question

What kinds of diseases are caused by air pollution?

- A. Diabetes, obesity, depression
- B. Allergies, asthma, bronchitis
- C. Hair fall, loss of appetite, weight loss

- 1) Only A
- 2) Only B
- 3) Only C
- 4) Only A and B

Correct option: 2)

Solution

Air pollution causes allergies and respiratory diseases such as bronchitis and asthma. Air pollution does not cause diabetes, obesity, depression, hair loss, loss of appetite, or weight loss. As a result, option (2) is correct.

Q95. Read the passage given below and then answer the questions given below the passage. Some words may be highlighted for your attention. Read carefully.

Air pollution has jumped to number five spot amongst the top killers in India. Releasing India-specific data, the Global Burden of Disease (GBD) warned that outdoor air pollution caused 8,27,000 deaths and 17.7 million healthy years of life in 2010

Worldwide, outdoor air pollution caused 3.2 million premature deaths and over 74 million years of healthy life in 2010

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Two-thirds of the rising disease graphs worldwide are found in South Asia.

Dr. Vinod Raina, heading the oncology wing at AIIMS, confirmed that 'we are getting 10 lakh new cancer cases every year, out of which approximately one lakh are lung cancer cases. We still have to quantify how many of these lung cancer cases are pollution-related:

Dr. Aaron Cohen, principal scientist, Health Effects Institute, Boston, and chairperson of the Air Pollution Group at Institute for Health Metrics and Evaluation for Global Burden of Disease pointed out that a study of lung cancer amongst non-smokers had shown a 60 per cent increase caused by air pollution.

Prof. S. K. Chhabra, heading the department of cardio-respiratory physiology at the Vallabhbhai Patel Chest Institute, warned against the risk from new generation pollutants, especially ozone that is currently responsible for a four per cent increase in mortality rates.

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Allergies, respiratory diseases, bronchitis, asthma, etc. were all caused by air pollution. The harmful fumes from vehicles are a major cause of air pollution.

The India-related data was calculated from the largest global database ever assembled using India-specific levels of baseline mortality and incidence of five leading causes of death in India and was released at a workshop organised by ICMR and CSE.

The 2010 GBD was produced by a rigorous scientific process involving 150 global experts led by the Institute of Health Metrics and Evaluation along with WHO and Harvard University.

Question

Which of the following statements is false according to the passage?

- 1) Two-thirds of the rising disease graphs worldwide are found in South Asia.
- 2) A study of lung cancer amongst non-smokers had shown a 60 per cent increase caused by air pollution.
- 3) The 2010 GBD was produced by a rigorous scientific process involving 150 global experts.
- 4) The head of oncology department confirmed getting thousands of new cases of lung cancer every year.

Correct option: 4)

Solution

Option 1, 2, and 3 are correct based on the passage, but option 4 is incorrect. The head of the oncology department confirmed receiving "lakhs," not "thousands," of new cases of lung cancer. As a result, option (4) is correct.

Q96. Read the passage given below and then answer the questions given below the passage. Some words may be highlighted for your attention. Read carefully.

Air pollution has jumped to number five spot amongst the top killers in India. Releasing India-specific data, the Global Burden of Disease (GBD) warned that outdoor air pollution caused 8,27,000 deaths and 17.7 million healthy years of life in 2010

Worldwide, outdoor air pollution caused 3.2 million premature deaths and over 74 million years of healthy life in 2010

A substantial rise in cardiovascular diseases, strokes and chronic obstructive pulmonary diseases in India in 2010 are directly attributed to the rising levels of particulate matter pollution.

Two-thirds of the rising disease graphs worldwide are found in South Asia.

Dr. Vinod Raina, heading the oncology wing at AIIMS, confirmed that 'we are getting 10 lakh new cancer cases every year, out of which approximately one lakh are lung cancer cases. We still have to quantify how many of these lung cancer cases are pollution-related:

Dr. Aaron Cohen, principal scientist, Health Effects Institute, Boston, and chairperson of the Air Pollution Group at Institute for Health Metrics and Evaluation for Global Burden of Disease pointed out that a study of lung cancer amongst non-smokers had shown a 60 per cent increase caused by air pollution.

Prof. S. K. Chhabra, heading the department of cardio-respiratory physiology at the Vallabhbhai Patel Chest Institute, warned against the risk from new generation pollutants, especially ozone that is currently responsible for a four per cent increase in mortality rates.

'Ozone has become a key ingredient of urban smog', said Prof. Chhabra.

Prof. Randeep Guleria, head of the pulmonary unit at AIIMS, highlighted how indoor air pollution had emerged as another major killer amongst women using biomass for their cooking requirements. 'Women in the Gujjar community suffer a high incidence of cancer caused by indoor air pollution': Prof. Guleria explained.

Allergies, respiratory diseases, bronchitis, asthma, etc. were all caused by air pollution. The harmful fumes from vehicles are a major cause of air pollution.

The India-related data was calculated from the largest global database ever assembled using India-specific levels of baseline mortality and incidence of five leading causes of death in India and was released at a workshop organised by ICMR and CSE.

The 2010 GBD was produced by a rigorous scientific process involving 150 global experts led by the Institute of Health Metrics and Evaluation along with WHO and Harvard University.

Question

Choose the word that is closest in meaning to the word given in bold in the passage 'substantial?'

- 1) Significant
- 2) Inconsiderable
- 3) Unreal
- 4) Dissatisfying

Correct option: 1)
Solution

The term "substantial" means "considerable and significant." Thus, 'significant' is the closest synonym for 'substantial.' The words 'insignificant, unreal, dissatisfying, and weak' are diametrically opposed to the given word. As a result, these words should be removed. As a result, option (1) is correct.

Q97. Read the passage given below and then answer the questions given below the passage. Some words may be highlighted for your attention. Read carefully.

Air pollution has jumped to number five spot amongst the top killers in India. Releasing India-specific data, the Global Burden of Disease (GBD) warned that outdoor air pollution caused 8,27,000 deaths and 17.7 million healthy years of life in 2010

Worldwide, outdoor air pollution caused 3.2 million premature deaths and over 74 million years of healthy life in 2010

A substantial rise in cardiovascular diseases, strokes and chronic obstructive pulmonary diseases in India in 2010 are directly attributed to the rising levels of particulate matter pollution.

Two-thirds of the rising disease graphs worldwide are found in South Asia.

Dr. Vinod Raina, heading the oncology wing at AIIMS, confirmed that 'we are getting 10 lakh new cancer cases every year, out of which approximately one lakh are lung cancer cases. We still have to quantify how many of these lung cancer cases are pollution-related:

Dr. Aaron Cohen, principal scientist, Health Effects Institute, Boston, and chairperson of the Air Pollution Group at Institute for Health Metrics and Evaluation for Global Burden of Disease pointed out that a study of lung cancer amongst non-smokers had shown a 60 per cent increase caused by air pollution.

Prof. S. K. Chhabra, heading the department of cardio-respiratory physiology at the Vallabhbhai Patel Chest Institute, warned against the risk from new generation pollutants, especially ozone that is currently responsible for a four per cent increase in mortality rates.

'Ozone has become a key ingredient of urban smog', said Prof. Chhabra.

Prof. Randeep Guleria, head of the pulmonary unit at AIIMS, highlighted how indoor air pollution had emerged as another major killer amongst women using biomass for their cooking requirements. 'Women in the Gujjar community suffer a high incidence of cancer caused by indoor air pollution': Prof. Guleria explained.

Allergies, respiratory diseases, bronchitis, asthma, etc. were all caused by air pollution. The harmful fumes from vehicles are a major cause of air pollution.

The India-related data was calculated from the largest global database ever assembled using India-specific levels of baseline mortality and incidence of five leading causes of death in India and was released at a workshop organised by ICMR and CSE.

The 2010 GBD was produced by a rigorous scientific process involving 150 global experts led by the Institute of Health Metrics and Evaluation along with WHO and Harvard University.

Question

Choose the word that is closest in meaning to the word given in bold in the passage, 'Emerged?'

- 1) Hid

- 2) Camouflaged
- 3) Came forth
- 4) Underneath

Correct option: 3)

Solution

'Emerged' means to come forth or forward. As a result, the word 'emerged' is the closest to the word 'came forth.' In nature, the words hidden, camouflaged, and beneath are antonyms. Therefore, these words ought to be removed. As a result, option (3) is correct.

Q98. Read the passage given below and answer the questions/complete the statements that follow by choosing the correct options out of the given ones.

The old man was overjoyed when he heard of the invitation. He became nearly incoherent with joy. He was torn between the attraction of the offer and shyness. For the first time, Srinivas observed that the man could be moved by shyness. "No, no, I never eat anywhere. Oh, don't trouble yourself about it... No, no ..." he said but all the same, got up and followed Srinivas into the kitchen. He grinned affably at Srinivas's wife and commented flatteringly: "I have always told a lot of people to come and observe this lady for a model. How well she looks after the house. I wish modern girls were all like her." Srinivas gently propelled him to a plank, on which he sat down. He observed from his wife's face that she was pleased with the compliment, and Srinivas felt that old man's coffee was now assured. His wife came out with a tumbler of water and two leaves and set them in front of them. She then served a couple of cakes on each leaf, and the old man rubbed his hands with the joy of anticipation.

At a signal from Srinivas, he fell to; and Srinivas wondered how long it was since the other had had any. "What do you eat at night?" he asked testingly. The old man tore off a piece of cake and stuffed it in his mouth and swallowed it before he answered,

shaking his head: 'I'm not a youth. Time was when I used to take three meals a day - three full meals a day in addition to tiffin twice a day. Do you know "That's remarkable." Agreed Srinivas admiringly. "But now what do you do?" "I'm a sanyasi, my dear young man."

Question:

What was the reason the old man flattered Srinivas's wife?

- 1) Because it is an example of good manners.
- 2) Because he wanted to be welcomed.
- 3) Because he had met her for the first time.
- 4) both 1 and 2 .

Correct option: 4)

Solution

Both 1 and 2 Key Points are correct answers.

- Consider the following passage lines-

"He grinned affably at Srinivas's wife and commented flatteringly: "I have always told a lot of people to come and observe this lady for a model. How well she looks after the house. I wish modern girls were all like her."

- "He observed from his wife's face that she was pleased with the compliment,

From the above mentioned sentences it can be inferred that appreciating someone is a sign of good manners and also the old man was treated more warmly after he complimented the lady.

Q99. Read the passage given below and answer the questions/complete the statements that follow by choosing the correct options out of the given ones.

The old man was overjoyed when he heard of the invitation. He became nearly incoherent with joy. He was torn between the attraction of the offer and shyness. For the first time, Srinivas observed that the man could be moved by shyness. "No, no, I never eat anywhere. Oh, don't trouble yourself about it... No, no ..." he said but all the same, got up and followed Srinivas into the kitchen. He grinned affably at Srinivas's wife and commented flatteringly: "I have always told a lot of people to come and observe this lady for a model. How well she looks after the house. I wish modern girls were all like her." Srinivas gently propelled him to a plank, on which he sat down. He observed from his wife's face that she was pleased with the compliment, and Srinivas felt that old man's coffee was now assured. His wife came out with a tumbler of water and two leaves and set them in front of them. She then served a couple of cakes on each leaf, and the old man rubbed his hands with the joy of anticipation.

At a signal from Srinivas, he fell to; and Srinivas wondered how long it was since the other had had any. "What do you eat at night?" he asked testingly. The old man tore off a piece of cake and stuffed it in his mouth and swallowed it before he answered, shaking his head: "I'm not a youth. Time was when I used to take three meals a day - three full meals a day in addition to tiffin twice a day. Do you know "That's remarkable." Agreed Srinivas admiringly. "But now what do you do?" "I'm a sanyasi, my dear young man."

Question:

Read the following statements and answer the following.

- (a) Srinivas's wife treated the old man very well.
- (b) The old man enjoyed his food.

- 1) (a) is right and (b) is wrong.
- 2) (b) is right and (a) is wrong.
- 3) Both (a) and (b) are right.
- 4) Both (a) and (b) are wrong.

Correct option: 3)

Solution

The correct response is Both (a) and (b) are correct.

- Let us look at the following passage lines:

- "His wife came out with a tumbler of water and two leaves and set them in front of them.

She then served a couple of cakes on each leaf, and the old man rubbed his hands with the joy of anticipation." -

Both the above statements shows that Sriniva's wife treated the old man very well.

- "The old man tore off a piece of cake and stuffed it in his mouth and swallowed it before he answered, shaking his head: I'm not a youth." -

This statement shows that the old man enjoyed his food.

Thus we can say that both the statements are correct.

Q100. Read the passage given below and answer the questions/complete the statements that follow by choosing the correct options out of the given ones.

The old man was overjoyed when he heard of the invitation. He became nearly incoherent with joy. He was torn between the attraction of the offer and shyness. For the first time, Srinivas observed that the man could be moved by shyness. "No, no, I never eat anywhere. Oh, don't trouble yourself about it... No, no ..." he said but all the same, got up and followed Srinivas into the kitchen. He grinned affably at Srinivas's wife and commented flatteringly: "I have always told a lot of people to come and observe this lady for a model. How well she looks after the house. I wish modern girls were all like her." Srinivas gently propelled him to a plank, on which he sat down. He observed from his wife's face that she was pleased with the compliment, and Srinivas felt that old man's coffee was now assured. His wife came out with a tumbler of water and two leaves and set them in front of them. She then served a couple of cakes on each leaf, and the old man rubbed his hands with the joy of anticipation.

At a signal from Srinivas, he fell to; and Srinivas wondered how long it was since the other had had any. "What do you eat at night?" he asked testingly. The old man tore off a piece of cake and stuffed it in his mouth and swallowed it before he answered, shaking his head: 'I'm not a youth. Time was when I used to take three meals a day - three full meals a day in addition to tiffin twice a day. Do you know "That's remarkable." Agreed Srinivas admiringly. "But now what do you do?" "I'm a sanyasi, my dear young man."

Question:

Why was the old man felt overjoyed on receiving the invitation?

- 1) The old man was very hungry.
- 2) The meal was prepared by an experienced cook.
- 3) Srinivas would not have accepted no as an answer.
- 4) A rich aroma of food was coming out of the kitchen.

Correct option: 1)

Solution

The correct answer is that the old man was very hungry.

Let's look at the following passage lines:

"At a signal from Srinivas he fell to, and Srinivas wondered how long it was since the other had had any. "What do you eat at nights?" he asked testingly."

The expression on Srinivas' face suggests that the man was feeling very hungry. As a result, it can be inferred that option 1 is the correct answer.

Q101. Read the passage given below and answer the questions/complete the statements that follow by choosing the correct options out of the given ones.

The old man was overjoyed when he heard of the invitation. He became nearly incoherent with joy. He was torn between the attraction of the offer and shyness. For the first time, Srinivas observed that the man could be moved by shyness. "No, no, I never eat anywhere. Oh, don't trouble yourself about it... No, no ..." he said but all the same, got up and followed Srinivas into the kitchen. He grinned affably at Srinivas's wife and commented flatteringly: "I have always told a lot of people to come and observe this lady for a model. How well she looks after the house. I wish modern girls were all like her." Srinivas gently propelled him to a plank, on which he sat down. He observed from his wife's face that she was pleased with the compliment, and Srinivas felt that old man's coffee was now assured. His wife came out with a tumbler of water and two leaves and set them in front of them. She then served a couple of cakes on each leaf, and the old man rubbed his hands with the joy of anticipation.

At a signal from Srinivas, he fell to; and Srinivas wondered how long it was since the other had had any. "What do you eat at night?" he asked testingly. The old man tore off a piece of cake and stuffed it in his mouth and swallowed it before he answered, shaking his head: "I'm not a youth. Time was when I used to take three meals a day - three full meals a day in addition to tiffin twice a day. Do you know "That's remarkable." Agreed Srinivas admiringly. "But now what do you do?" "I'm a sanyasi, my dear young man."

Question:

Which is the closest meaning to word "affably?"

- 1) Dangerous
- 2) Friendly
- 3) Reluctant
- 4) Opposite

Correct option: 2)

Solution

Affably means in a friendly manner. So the closest meaning to this word will be friendly.

Q102. Read the passage given below and then answer the questions given below the passage. Some words may be highlighted for your attention. Read carefully.

Since the beginning of human civilization, science and technology have progressed in a continuous process. For the first humans, the fire must have been an exciting **all singing, all dancing** new technology. But to this day we are continuing research to fully answer the question, what is fire? And the search for new knowledge is based on rational thinking which is fundamental for progress and for making new discoveries. I doubt whether there was (or now is) a civilization that reached a high level of achievement without simultaneously **nurturing** science and technology and employing the rational characteristic of the culture of science. After all, we are Homo sapiens, the species characterized by an enlarged brain capacity. Science is an education process that allows the educated and creative minds to question, experiment or observe in an attempt to find answers, and then try to identify a set of unifying principles, concepts, and laws that embrace all phenomena of nature. The aim is to better understand our universe and gain new knowledge that will enlighten humanity by unveiling mysteries of how nature works. In the process, we may make new discoveries and inventions that change the way we think and/or create new technologies that transform our society. The sharp division of science into pure and applied branches is not natural. Some managers of science believe in this **division** and wish to emphasize only "what is relevant" for the prosperity of society. But that is not the way science works, as scientists themselves in their quest for new knowledge do not know what is relevant. And if they knew ahead of time it would not be new knowledge. Scientific research is not manageable in the usual sense of the word. Most science & technology advances are governed by a structure of a connected triad- basic research, technology development, and the involvement of society. In this cycle, both pure and applied sciences become an integral part of a successful endeavor. Take the case of cloning, a current subject of significant relevance to the definition of species. Cloning began as a laboratory experiment on the genetic material of our cells, DNA. But these experimental achievements would not have been possible without scientific research and advances over a half-century of development in many areas: the discovery of the genetic code, molecular structure of DNA, recombinant DNA, and other related studies. Moreover, a century of development of new techniques and tools provided the means: x-ray crystallography, polymerase chain reaction (PCR), genetic engineering, as well as computer data processing. Then came the first successful cloning of a higher organism - Dolly, the sheep - an act that transformed laboratory research into an enterprise with possible benefits to human

medicine. But the third element of the triad, the society, must now be involved to develop a full perspective of the moral, ethical, and religious implications of cloning. With rational thinking, the benefits of cloning and other developments, such as stem cell research, to society will undoubtedly feedback to the support of basic research, and the cycle of the triad continues. Cycles of this type ultimately lead to the development of new concepts and new tools or techniques. Some historians of science make a division between the two. The late influential historian and philosopher of science, Thomas Kuhn, favored concept-driven research as a paradigm over tool-driven research. Although I am not a historian, I find from my own experience as a scientist that this distinction is not as sharp as Kuhn would have it. In fact, new tools and techniques

Some historians of science make a division between the two. The late influential historian and philosopher of science, Thomas Kuhn, favored concept-driven research as a paradigm over tool-driven research.

Question:

Which kind of organism was cloned successfully for the first time and what was it named?

- 1) Dolly the rat
- 2) Dolly the sheep
- 3) Dolly the snake
- 4) Dolly the elephant

Correct option: 2)

Solution

It has been stated in the second half of the text,

"Then came the first successful cloning of a higher organism - Dolly the sheep..."

As a result, choice 2 provides the right response.

Q103. Read the passage given below and then answer the questions given below the passage. Some words may be highlighted for your attention. Read carefully.

Since the beginning of human civilization, science and technology have progressed in a continuous process. For the first humans, the fire must have been an exciting **all singing, all dancing** new technology. But to this day we are continuing research to fully answer the question, what is fire? And the search for new knowledge is based on rational thinking which is fundamental for progress and for making new discoveries. I doubt whether there was (or now is) a civilization that reached a high level of achievement without simultaneously **nurturing** science and technology and employing the rational characteristic of the culture of science. After all, we are Homo sapiens, the species characterized by an enlarged brain capacity. Science is an education process that allows the educated and creative minds to question, experiment or observe in an attempt to find answers, and then try to identify a set of unifying principles, concepts, and laws that embrace all phenomena of nature. The aim is to better understand our universe and gain new knowledge that will enlighten humanity by unveiling mysteries of how nature works. In the process, we may make new discoveries and inventions that change the way we think and/or create new technologies that transform our society. The sharp division of science into pure and applied branches is not natural. Some managers of science believe in this **division** and wish to emphasize only "what is relevant" for the prosperity of society. But that is not the way science works, as scientists themselves in their quest for new knowledge do not know what is relevant. And if they knew ahead of time it would not be new knowledge. Scientific research is not manageable in the usual sense of the word. Most science & technology advances are governed by a structure of a connected triad- basic research, technology development, and the involvement of society. In this cycle, both pure and applied sciences become an integral part of a successful endeavor. Take the case of cloning, a current subject of significant relevance to the definition of species. Cloning began as a laboratory experiment on the genetic material of our cells, DNA. But these experimental achievements would not have been possible without scientific research and advances over a half-century of development in many areas: the discovery of the genetic code, molecular structure of DNA, recombinant DNA, and other related studies. Moreover, a century of development of new techniques and tools provided the means: x-ray crystallography, polymerase chain reaction (PCR), genetic engineering, as well as computer data processing. Then came the first successful cloning of a higher organism - Dolly, the sheep - an act that transformed laboratory research into an enterprise with possible benefits to human medicine. But the third element of the triad, the society, must now be involved to

develop a full perspective of the moral, ethical, and religious implications of cloning. With rational thinking, the benefits of cloning and other developments, such as stem cell research, to society will undoubtedly feedback to the support of basic research, and the cycle of the triad continues. Cycles of this type ultimately lead to the development of new concepts and new tools or techniques. Some historians of science make a division between the two. The late influential historian and philosopher of science, Thomas Kuhn, favored concept-driven research as a paradigm over tool-driven research. Although I am not a historian, I find from my own experience as a scientist that this distinction is not as sharp as Kuhn would have it. In fact, new tools and techniques

Some historians of science make a division between the two. The late influential historian and philosopher of science, Thomas Kuhn, favored concept-driven research as a paradigm over tool-driven research. Although I am not a historian, I find from my own experience as a scientist that this distinction is not as sharp as Kuhn would have it, In fact, new tools and techniques drive scientific research as much as new concepts, and both are part of the progress of science.

Question:

Choose the correct meaning of the word "triad" as given in the passage.

- 1) Bisexual
- 2) Pentagonal
- 3) a group of three related things
- 4) Bifocal

Correct option: 3)

Solution

Triad: three related things that form a group
Additional Information

The other words' meanings

- Bisexual: attracted to both men and women sexually.

Pentagonal: pertaining to or being of the pentagon (a geometrical figure with 5 sides)
 - Bifocal: referring to a lens with two components, one for distance vision and the other for close-up vision, each with a separate focal length.

Q104. Read the passage given below and then answer the questions given below the passage. Some words may be highlighted for your attention. Read carefully.

Since the beginning of human civilization, science and technology have progressed in a continuous process. For the first humans, the fire must have been an exciting **all singing, all dancing** new technology. But to this day we are continuing research to fully answer the question, what is fire? And the search for new knowledge is based on rational thinking which is fundamental for progress and for making new discoveries. I doubt whether there was (or now is) a civilization that reached a high level of achievement without simultaneously **nurturing** science and technology and employing the rational characteristic of the culture of science. After all, we are Homo sapiens, the species characterized by an enlarged brain capacity. Science is an education process that allows the educated and creative minds to question, experiment or observe in an attempt to find answers, and then try to identify a set of unifying principles, concepts, and laws that embrace all phenomena of nature. The aim is to better understand our universe and gain new knowledge that will enlighten humanity by unveiling mysteries of how nature works. In the process, we may make new discoveries and inventions that change the way we think and/or create new technologies that transform our society. The sharp division of science into pure and applied branches is not natural. Some managers of science believe in this **division** and wish to emphasize only "what is relevant" for the prosperity of society. But that is not the way science works, as scientists themselves in their quest for new knowledge do not know what is relevant. And if they knew ahead of time it would not be new knowledge. Scientific research is not manageable in the usual sense of the word. Most science & technology advances are governed by a structure of a connected triad- basic research, technology development, and the involvement of society. In this cycle, both pure and applied sciences become an integral part of a successful endeavor. Take the case of cloning, a current subject of significant relevance to the definition of species. Cloning began as a laboratory experiment on the genetic material of our cells, DNA. But these experimental achievements would not have been possible without scientific research and advances over a half-century of development in many areas: the discovery of the genetic code, molecular structure of DNA, recombinant DNA, and other related studies. Moreover, a century of development of new techniques and tools provided the means: x-ray crystallography, polymerase chain reaction (PCR), genetic engineering, as well as computer data processing. Then came the first successful cloning of a higher organism - Dolly, the sheep - an act that

transformed laboratory research into an enterprise with possible benefits to human medicine. But the third element of the triad, the society, must now be involved to develop a full perspective of the moral, ethical, and religious implications of cloning. With rational thinking, the benefits of cloning and other developments, such as stem cell research, to society will undoubtedly feedback to the support of basic research, and the cycle of the triad continues. Cycles of this type ultimately lead to the development of new concepts and new tools or techniques. Some historians of science make a division between the two. The late influential historian and philosopher of science, Thomas Kuhn, favored concept-driven research as a paradigm over tool-driven research. Although I am not a historian, I find from my own experience as a scientist that this distinction is not as sharp as Kuhn would have it. In fact, new tools and techniques drive scientific research as much as new concepts, and both are part of the progress of science.

Question:

In the above passage which element can be referred to the third element of the 'triad'

- 1) Involvement of Society.
- 2) primary research
- 3) Technological advancement
- 4) Governmental regulations

Correct option: 1)

Solution

As mentioned in the following context:

'But the third element of the triad, the society, must now be involved to develop a full perspective of the moral...

It can be concluded that the third element of the triad refers to the involvement of the society.

Thus, the correct answer is option 1.

Q105. Read the passage given below and then answer the questions given below the passage. Some words may be highlighted for your attention. Read carefully.

Since the beginning of human civilization, science and technology have progressed in a continuous process. For the first humans, the fire must have been an exciting **all singing, all dancing** new technology. But to this day we are continuing research to fully answer the question, what is fire? And the search for new knowledge is based on rational thinking which is fundamental for progress and for making new discoveries. I doubt whether there was (or now is) a civilization that reached a high level of achievement without simultaneously **nurturing** science and technology and employing the rational characteristic of the culture of science. After all, we are Homo sapiens, the species characterized by an enlarged brain capacity. Science is an education process that allows the educated and creative minds to question, experiment or observe in an attempt to find answers, and then try to identify a set of unifying principles, concepts, and laws that embrace all phenomena of nature. The aim is to better understand our universe and gain new knowledge that will enlighten humanity by unveiling mysteries of how nature works. In the process, we may make new discoveries and inventions that change the way we think and/or create new technologies that transform our society. The sharp division of science into pure and applied branches is not natural. Some managers of science believe in this **division** and wish to emphasize only "what is relevant" for the prosperity of society. But that is not the way science works, as scientists themselves in their quest for new knowledge do not know what is relevant. And if they knew ahead of time it would not be new knowledge. Scientific research is not manageable in the usual sense of the word. Most science & technology advances are governed by a structure of a connected triad- basic research, technology development, and the involvement of society. In this cycle, both pure and applied sciences become an integral part of a successful endeavor. Take the case of cloning, a current subject of significant relevance to the definition of species. Cloning began as a laboratory experiment on the genetic material of our cells, DNA. But these experimental achievements would not have been possible without scientific research and advances over a half-century of development in many areas: the discovery of the genetic code, molecular structure of DNA, recombinant DNA, and other related studies. Moreover, a century of development of new techniques and tools provided the means: x-ray crystallography, polymerase chain reaction (PCR), genetic engineering, as well as computer data processing. Then came

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Some historians of science make a division between the two. The late influential historian and philosopher of science, Thomas Kuhn, favored concept-driven research as a paradigm over tool-driven research. Although I am not a historian, I find from my own experience as a scientist that this distinction is not as sharp as Kuhn would have it. In fact, new tools and techniques drive scientific research as much as new concepts, and both are part of the progress of science.

Question:

Pick the correct statement that reflects why the author is not making any comparison between concept driven research and tool driven research?

- 1) The given statement is a fallacy as the author clearly endorses the distinction between concept driven research and tool driven research.
- 2) The author has not been supported by different tools in his research.
- 3) The author has found that basic concept-driven research supported by tool-driven technological developments contribute the most to advancement in human civilization.
- 4) Since Dolly the sheep could not be cloned without proper technology, the author does not distinguish between concept driven research and tool driven research.

Correct option: 3)

Solution

- The author makes the argument that "the rigid division of science into pure and practical branches is not natural" right at the beginning of the paragraph. He continues by pointing out that science and technology are not independent entities but rather both complement and support one another.
 - He points out that 'most science & technology advances are governed by a structure of a connected triad - basic research, technology development, and the involvement of society.'
 - In the last sentence of the passage, the author says that 'in fact new tools and techniques drive scientific research as much as new concepts, and both are part of the progress of science.'
 - It is acceptable to assume that the author does not distinguish between concept-driven research and tool-driven research because advancement in human society depends on the successful collaboration of both. Therefore, choices 1 and 5 can be ruled out.
 - Although they make sense in the context of the passage, options 2 and 4 do not provide a solution.
- The best fit is option 3, which adequately explains why the author fails to discriminate between the two features.

Q106. Read the passage given below and then answer the questions given below the passage. Some words may be highlighted for your attention. Read carefully.

Since the beginning of human civilization, science and technology have progressed in a continuous process. For the first humans, the fire must have been an exciting **all singing, all dancing** new technology. But to this day we are continuing research to fully answer the question, what is fire? And the search for new knowledge is based on rational thinking which is fundamental for progress and for making new discoveries. I doubt whether there was (or now is) a civilization that reached a high level of achievement without simultaneously **nurturing** science and technology and employing the rational characteristic of the culture of science. After all, we are Homo sapiens, the species characterized by an enlarged brain capacity. Science is an education process that allows the educated and creative minds to question, experiment or observe in an attempt to find answers, and then try to identify a set of unifying principles, concepts, and laws that embrace all phenomena of nature. The aim is to better understand our universe and gain new knowledge that will enlighten humanity by unveiling mysteries of how nature works. In the process, we may make new discoveries and inventions that change the way we think and/or create new technologies that transform our society. The

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Question:

Choose the correct meaning of the highlighted phrase 'all singing, all dancing' as given in the passage?

- 1) Very modern and technically advanced.
- 2) Cultural performance.
- 3) Pagan ritual.
- 4) Spontaneity

Correct option: 1)

Solution

For the first humans fire must have been an exciting all singing, all dancing new technology.

-In the chapter, the expression "all singing, all dancing" refers to a technological advancement using fire. The new, i.e., contemporary technology, excites people.

- In the passage this phrase signifies "extremely modern and technically advanced."

Q107. Read the passage given below and then answer the questions given below the passage. Some words may be highlighted for your attention. Read carefully.

Since the beginning of human civilization, science and technology have progressed in a continuous process. For the first humans, the fire must have been an exciting **all singing, all dancing** new technology. But to this day we are continuing research to fully answer the question, what is fire? And the search for new knowledge is based on rational thinking which is fundamental for progress and for making new discoveries. I doubt whether there was (or now is) a civilization that reached a high level of achievement without simultaneously **nurturing** science and technology and employing the rational characteristic of the culture of science. After all, we are Homo sapiens, the species characterized by an enlarged brain capacity. Science is an education process that allows the educated and creative minds to question, experiment or observe in an attempt to find answers, and then try to identify a set of unifying principles, concepts, and laws that embrace all phenomena of nature. The aim is to better understand our universe and gain new knowledge that will enlighten humanity by unveiling mysteries of how nature works. In the process, we may make new discoveries and inventions that change the way we think and/or create new technologies that transform our society. The

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Question:

What is the central idea of the passage?

- 1) war between Science and technology.

- 2) Science and technology together can lead to advancement of human civilization.
- 3) Importance of societal acceptance for betterment of human civilization.
- 4) Primary research can't be completed without technological development.

Correct option: 2)

Solution

The article discusses how certain purists often make a distinction between science and technology when, in fact, both work together to improve society. As a result, option 2 is the appropriate response because the main idea is what is being developed throughout the text. Option 1 presents a viewpoint that is opposed to the one that the passage supports. Options 3 and 4 are definitely points of the passage but they do not form the main idea of the passage.

Q108. Select the correct indirect form of the given sentence.

You said to me, "Will you dance with me?"

- 1) You asked me that if I would dance with you.
- 2) You asked me will you dance with me.
- 3) You asked me if I will dance with you.
- 4) You asked me if I would dance with you.

Correct option: 4)

Solution

When transforming a direct question into an indirect question, it often involves changing the reporting verb ("said" in this case) to a more appropriate reporting verb like "asked" and adjusting the word order.

In the original direct sentence, "Will you dance with me?" is transformed into "if I would dance with you" in the indirect form. The word order is changed, and the reporting verb is updated to accurately convey the act of asking.

Therefore, the correct indirect form of the given sentence is: "You asked me if I would dance with you."

Q109. Select the correct direct form of the given sentence.

The secretary assures the audience that he/she is going to help them.

- 1) The secretary said to the audience, "I am going to help you."
- 2) The secretary says to the audience, "I am going to help you."
- 3) The secretary says to the audience, "I was going to help you."
- 4) The secretary says to the audience, "I will be going to help you."

Correct option: 2)

Solution

Direct speech involves directly quoting what someone says, whereas reported speech conveys the meaning of what someone says without using their exact words.

When converting this to direct speech:

The introductory phrase the secretary assures the audience will change to the secretary says to the audience.

The reported speech, that he/she is going to help them, shifts to direct speech marked by, I am going to help you.

He/she changes to "I" to indicate the first-person perspective of the secretary.

Tense of the sentence remains unchanged as the reporting verb is in the present tense.

So, the transformed direct speech would be: "The secretary says to the audience, 'I am going to help you.'"

Q110. Choose the correct answer.

Statement: Mandatory vaccinations should be enforced to prevent the spread of infectious diseases.

Argument: Vaccinations create herd immunity, protecting vulnerable populations such as infants and individuals with compromised immune systems.

- 1) Both the statement and the argument are true, and the argument is the valid explanation of the statement.
- 2) The statement is true, but the argument is not a valid explanation of the statement.
- 3) The statement is false, but the argument is true.
- 4) Both the statement and the argument are false.

Correct option: 1)

Solution

Mandatory vaccinations can indeed help prevent the spread of infectious diseases by creating herd immunity, which is essential for protecting vulnerable populations such as infants and individuals with compromised immune systems.

Hence, the first option is correct.

Q111. What is the purpose of using clear and concise subject lines in email communication?

- 1) To confuse recipients
- 2) To prioritize and understand the email's purpose quickly
- 3) To increase the length of the email
- 4) To disregard the content of the email

Correct Option: 2)

Solution

Clear and concise subject lines help recipients prioritize and quickly understand the purpose of the email, facilitating effective communication.

Q112. Which acronym represents a specialized processor for rendering graphics and images?

- 1) OS
- 2) GPU
- 3) SSD
- 4) DNS

Correct Option: 2)

Solution

GPU stands for Graphics Processing Unit, a specialized processor designed to handle tasks related to rendering graphics and images, relieving the CPU of this workload.

Q113. What does OS stand for in the context of computers?

- 1) Optical System
- 2) Operating System
- 3) Output Software
- 4) Online Service

Correct Option: 2)

Solution

OS stands for Operating System, a software that manages computer hardware resources and provides common services for computer programs.

Q114. Which protocol is used for secure data transfer over the internet?

- 1) HTTP
- 2) HTTPS
- 3) DNS
- 4) FTP

Correct Option: 2)

Solution

HTTPS is an encrypted version of HTTP, providing a secure way to transfer data over the internet, often used for secure transactions.

Q115. What does API stand for in the field of software development?

- 1) Application Processing Interface
- 2) Advanced Programming Interface
- 3) Artificial Programming Interface
- 4) Application Programming Interface

Correct Option: 4)

Solution

API stands for Application Programming Interface, which is a set of protocols and tools for building software applications, allowing them to communicate and interact with each other.

Q116. In the context of databases, what does CRUD stand for?

- 1) Create, Read, Update, Delete
- 2) Control, Retrieve, Update, Deliver
- 3) Compute, Remove, Update, Deploy
- 4) Centralize, Retrieve, Update, Distribute

Correct Option: 1)

Solution

CRUD represents the basic functions of persistent storage in databases—Create, Read, Update, and Delete—encompassing the fundamental operations for managing data.

Q117. Why is a timely response to emails considered important in professional communication?

- 1) To procrastinate on tasks
- 2) To show disrespect for others' time
- 3) To acknowledge receipt and prioritize effective communication
- 4) To avoid acknowledging the receipt of emails

Correct Option: 3)

Solution

Timely responses show acknowledgment and prioritize effective communication, demonstrating respect for others' time and maintaining professionalism.

Q118. According to the Audience-Centered Approach, what is essential for tailoring presentations effectively?

- 1) Ignoring the audience's needs
- 2) Prioritizing the presenter's preferences
- 3) Understanding the audience's needs, preferences, and knowledge levels
- 4) Focusing only on the presenter's knowledge levels

Correct Option: 3)

Solution

The Audience-Centered Approach emphasizes tailoring presentations based on a thorough understanding of the audience's needs, preferences, and knowledge levels.

Q119. How does the Transactional Model of Communication relate to negotiation processes?

- 1) It emphasizes one-way communication
- 2) It emphasizes the interactive and dynamic nature of communication during negotiations
- 3) It discourages communication during negotiations
- 4) It suggests a static communication process

Correct Option: 2)

Solution

The Transactional Model of Communication aligns with negotiation processes by highlighting the interactive and dynamic nature of communication in negotiation settings.

Q120. What does Symbolic Interactionism explain in the context of business terms?

- 1) How to avoid assigning meanings to symbols
- 2) How individuals assign meanings to symbols, ensuring shared understanding
- 3) The irrelevance of consistent definitions in effective communication
- 4) How to create confusion in communication

Correct Option: 2)

Solution

Symbolic Interactionism explains how individuals assign meanings to symbols, ensuring shared understanding and effective communication in the business context.

Q121. Which theoretical model emphasizes the importance of clear and consistent conceptualization in business terminology?

- 1) Symbolic Interactionism
- 2) Language as a Social Construct
- 3) Conceptual Clarity
- 4) Financial Statements

Correct Option: 3)

Solution

Emphasizing the importance of clear and consistent conceptualization in business terminology, Conceptual Clarity ensures shared understanding among individuals using business terms.

Q122. What does CPU stand for?

- 1) Central Processing Unit
- 2) Central Peripheral Unit
- 3) Central Program Unit
- 4) Central Power Unit

Correct Option: 1)

Solution

CPU stands for Central Processing Unit, which is the primary component of a computer responsible for performing calculations and executing instructions.

Q123. If '+' means \div , ' \times ' means '-', ' \div ' means ' \times ', '-' means '+'. What will be the value of the expression $9 + 3 \div 4 - 8 \times 2 = ?$

- 1) $6 \frac{1}{4}$
- 2) $6 \frac{3}{4}$
- 3) $-1 \frac{3}{4}$
- 4) 18

Correct Option: 4)

Solution

Given: $9 + 3 \div 4 - 8 \times 2$

Changing the signs, we get:

$$9 \div 3 \times 4 + 8 - 2$$

$$= 3 \times 4 + 8 - 2$$

$$= 12 + 8 - 2$$

$$= 20 - 2$$

$$= 18$$

Hence, the answer is 18.

Q124. In a two-digit number, the digit at unit's place is 1 less than twice the digit at the ten's place. If the digit at unit's and ten's place are interchanged, the difference between the new and the original number is less than the original number by 20. The original number is:

- 1) 59
- 2) 23
- 3) 35
- 4) 47

Correct Option: 4)

Solution

Let the tens digit be x so the unit digit is $(2x-1)$.

Original number $=10x+2x-1=12x-1$.

After the interchange, new number $=10(2x-1)+x=20x-10+x=21x-10$.

The difference between the new and the original numbers is $(21x-10)-(12x-1)=9x-9$.

According to the question,

$$9x-9=(12x-1)-20$$

$$\Rightarrow 12x-9x=21-9$$

$$\Rightarrow 3x=12$$

$$\Rightarrow x=4$$

Therefore, the tens digit is 4 and the unit digit is $(2 \times 4) - 1 = 7$.

Hence, the original number $= (4 \times 10) + 7 = 47$.

Q125. The digit in unit's place of the product $49237 \times 3995 \times 738 \times 83 \times 9$ is:

- 1) 0
- 2) 5
- 3) 6
- 4) 4

Correct Option: 1)

Solution

The product of unit digits of the 2nd and the 3rd number is $(5 \times 8) = 40$.

The unit digit of this product is 0.

So the digit in the unit's place of the product $49237 \times 3995 \times 738 \times 83 \times 9$ is also 0.

Hence, the correct answer is 0.

Q126. When a number x is divided by a divisor, it is seen that the divisor is 4 times the quotient, or double the remainder. If the remainder is 80, then the value of x is:

- 1) 6480
- 2) 6980

3) 8460

4) 4680

Correct Option: 1)

Solution

Given: Divisor = $4 \times$ Quotient = $2 \times$ Remainder, Remainder = 80

Divisor = $2 \times 80 = 160$

And,

Divisor = $4 \times$ Quotient

$160 = 4 \times$ Quotient

Quotient = $160/4 = 40$

Let the dividend be x .

We know, Dividend = Divisor \times Quotient + Remainder

$\Rightarrow x = 160 \times 40 + 80$

$\Rightarrow x = 6400 + 80$

$\Rightarrow x = 6480$

Hence, the correct answer is 6480.

Q127. If the sum of digits of any number between 100 and 1000 is subtracted by the same number, the resulting number is always divisible by:

1) 2

2) 5

3) 6

4) 9

Correct Option: 4)

Solution

Let's consider a number with three digits, a , b , and c .

The value of this number can be expressed as follows: $100a + 10b + c$

Subtracting the sum of the digits from the number,

$(100a + 10b + c) - (a + b + c) = 99a + 9b = 9(11a + b)$

Hence, the resulting number is always divisible by 9.

Option 4 is correct.

Q128. What is the sum of all prime numbers between 60 and 80?

- 1) 272
- 2) 284
- 3) 351
- 4) 414

Correct Option: 3)

Solution

Prime numbers between 60 and 80 are: 61, 67, 71, 73, 79

Sum = $61 + 67 + 71 + 73 + 79 = 351$

Hence, the correct answer is 351.

Q129. What is the LCM of 120 and 450?

- 1) 2400
- 2) 1800
- 3) 3600
- 4) 4800

Correct Option: 2)

Solution

$120 = 2 \times 2 \times 2 \times 3 \times 5$

$450 = 2 \times 3 \times 3 \times 5 \times 5$

LCM of 120 and 450 is $(2 \times 2 \times 2 \times 3 \times 3 \times 5 \times 5) = 1800$

i.e. 1800 is the least common multiple of 120 and 450.

Hence, the correct answer is 1800.

Q130. How many positive factors of 160 are there?

- 1) 6
- 2) 8
- 3) 5
- 4) 12

Correct Option: 4)

Solution

$$160 = 2^4 \times 5$$

If $N = a^m \times b^n$, where a and b are prime numbers, then the number of positive factors of $N = (m+1) \times (n+1)$

$$\text{Total number of positive factors of } 160 = 6 \times 2 = 12$$

Hence, the correct answer is 12.

Q131. The LCM of the two numbers is 4 times their HCF. The sum of LCM and HCF is 125. If one of the numbers is 100, then the other number is:

- 1) 5
- 2) 25
- 3) 100
- 4) 125

Correct Option: 2)

Solution

Let $\text{LCM} = L$ and $\text{HCF} = H$, then

$$\text{Given: } L = 4H$$

The sum of LCM and HCF = 125

$$\Rightarrow H + 4H = 125$$

$$\Rightarrow 5H = 125$$

$$\Rightarrow H = 125/5$$

$$\Rightarrow H=25$$

$$\therefore L=4 \times 25=100$$

$$\text{2nd number} = (L \times H) / 100 = (100 \times 25) / 100 = 25$$

Hence, the correct answer is 25.

Q132. H.C.F of $2/3, 4/5$ and $6/7$ is:

- 1) $48/105$
- 2) $2/105$
- 3) $1/105$
- 4) $24/105$

Correct Option: 2)

Solution

Given: $2/3, 4/5, 6/7$

Apply formula, HCF of the fraction = HCF of numerator / LCM of denominator

HCF of 2, 4, and 6 is 2.

LCM of 3, 5, and 7 is 105.

Hence, the correct answer is $2/105$.

Q133. During the first year, the population of the town increased by 12%. The next year, due to some contagious disease, it decreased by 8%. At the end of the second year, the population was 64,400. Find the population of the town at the beginning of the first year.

- 1) 50,000
- 2) 54,750
- 3) 62,500
- 4) 50,500

Correct Option: 3)

Solution

Let the initial population be x .

Then, according to the question,

The population increased by 12% meaning the current population is 112% of x . Again the population decreased meaning it is now 92% of 112% of x .

So, 92% of 112% of $x=64400$

$$\Rightarrow 0.92 \times 1.12x = 64400$$

$$\Rightarrow x = 64400 / (0.92 \times 1.12)$$

$$\Rightarrow x = 64400 / 1.0304$$

$$\Rightarrow x = 62500$$

Hence, the correct answer is 62,500.

Q134. Shiva's monthly salary is Rs.75,000. He spends Rs.12,000 on household items, Rs.14,000 on LIC and mutual funds, Rs.15,000 on his children's education, and keeps Rs.10,000 for miscellaneous expenses. His savings are Rs.21,000 per month and he donates the rest of the amount to an orphanage. The percentage of his income that he donates is:

- 1) 3%
- 2) 6%
- 3) 8%
- 4) 4%

Correct Option: 4)

Solution

Percentage Donated = Amount Donated / Total Income $\times 100$

First, let's calculate the total expenses:

Total Expenses = Household items + LIC and mutual funds + Children's education + Miscellaneous

expenses

$$\text{Total Expenses} = \text{Rs. } 12,000 + \text{Rs. } 14,000 + \text{Rs. } 15,000 + \text{Rs. } 10,000 = \text{Rs. } 51,000$$

Amount Donated = Total Income - Total Expenses - Savings

$$\text{Amount Donated} = \text{Rs. } 75,000 - \text{Rs. } 51,000 - \text{Rs. } 21,000 = \text{Rs. } 3,000$$

Now, you can calculate the percentage donated:

$$\text{Percentage Donated} = (3,000 / 75,000) \times 100 = (1/25) \times 100 = 4\%$$

Hence, the correct answer is 4%.

Q135. If A is 20% less than B, then B is how much percentage more than A?

- 1) 33.33%
- 2) 50%
- 3) 20%
- 4) 25%

Correct Option: 4)

Solution

A = 20% less than B

A = 80% of B

B = $100/80 \times A$

= 1.25 A

= 125% of A

⇒ B is 25% more than A.

Hence, the correct answer is 25%.

Q136. A number is increased by 5% and then the increased number is decreased by 5%. What is the net increase or decrease per cent?

- 1) 0.25% decrease
- 2) 0.75% increase
- 3) 1% increase
- 4) 0.50% decrease

Correct Option: 1)

Solution

Let x be the number.

Increase = 5%

Increased number = $x + 5\%$ of $x = 105\%$ of $x = 1.05x$

Decrease = 5%

Final number = $1.05x - 5\%$ of $1.05x = 0.95 \times 1.05x = 0.9975x$

Net decrease $= (x - 0.9975x) / x \times 100 = 0.25\%$
Hence, the correct answer is a 0.25% decrease.

Q137. 225 percent of 80 percent of 80 = _____.

- 1) 156
- 2) 132
- 3) 144
- 4) 138

Correct Option: 3)

Solution

Given: 225 percent of 80 percent of 80
 $= 225/100 \times 80/100 \times 80$
 $= 9/4 \times 4/5 \times 80$
 $= 9 \times 16$
 $= 144$
Hence, the correct answer is 144.

Q138. While measuring a line segment of length 10 cm, it was measured 10.2 cm by mistake, what is the percentage error in measurement?

- 1) 1%
- 2) 0.5%
- 3) 0.2%
- 4) 2%

Correct Option: 4)

Solution

Given: Correct measurement value = 10 cm

Measurement by mistake = 10.2 cm

Error = $10.2 - 10 = 0.2$

Error percentage = $\frac{\text{Error}}{\text{Correct measurement value}} \times 100$

$= \frac{0.2}{10} \times 100$

$= 2$

Hence, the correct answer is 2%.

Q139. A dozen pairs of socks quoted at Rs. 80 are available at a discount of 10%. How many pairs of socks can be bought for Rs. 24?

1) 4

2) 5

3) 3

4) 6

Correct Option: 1)

Solution

Given: A dozen pairs of socks quoted at Rs. 80 are available at a discount of 10%.

So, selling price is $80 \times \frac{90}{100} = 72$

A dozen pairs of socks sold at Rs. 72.

Price of 1 pair is $\frac{72}{12} = \text{Rs. } 6$

So, in Rs. 24, he gets $\frac{24}{6} = 4$ pairs

Hence, the correct answer is 4 pairs.

Q140. If a man travels at 12.5 percent less speed than his usual speed, then he will reach 9 minutes late. What is the usual time taken by him?

1) 63 minutes

2) 70 minutes

3) 56 minutes

4) 49 minutes

Correct Option: 1)

Solution

Given: If a man travels at 12.5 percent less speed than his usual speed, then he will reach 9 minutes late.

Here, 12.5% is equivalent to 9 minutes

So, 100% is equivalent to $9 \times 100 / 12.5 = 72$ minutes

Therefore, the usual time taken by him = $(72 - 9) = 63$ minutes

Hence, the correct answer is 63 minutes.

Q141. The speed of a boat in still water is 17 km/hr and the speed of a stream is 11 km/hr. Find the difference between the upstream speed and the downstream speed of the boat.

1) 18 km/hr

2) 22 km/hr

3) 21 km/hr

4) 28 km/hr

Correct Option: 2)

Solution

Given: The speed of a boat in still water is 17 km/hr and the speed of a stream is 11 km/hr.

Downstream speed of the boat = $(17 + 11) = 28$ km/hr

Upstream speed of the boat = $(17 - 11) = 6$ km/hr

So, the required difference = $(28 - 6) = 22$ km/hr

Hence, the correct answer is 22 km/hr.

Q142. Aman drove from home to a town at the speed of 60 km/hr and on his return journey, he drove at the speed of 30 km/hr and also took an hour longer to reach home. What distance did he cover each way?

1) 75 km

- 2) 55 km
- 3) 60 km
- 4) 80 km

Correct Option: 3)

Solution

Let the distance between home to town be d km.

Time from home to town = T hours

Time from town to home = $(T+1)$ hours

We know that,

Speed = Distance/ time

Since, both the distances are the same.

$$\therefore 60 \times T = 30 \times (T+1)$$

$$\Rightarrow 60T = 30T + 30$$

$$\Rightarrow T = 1$$

Distance from home to town = $60 \times 1 = 60$ km hence, the correct answer is 60 km.

Q143. A car covers the first 140 km of a journey in 10 hours and the next 260 km in 15 hours. What is the average speed of the Car for the whole journey?

- 1) 16 km/hr
- 2) 14 km/hr
- 3) 10 km/hr
- 4) 15 km/hr

Correct Option: 1)

Solution

Given: A car covers the first 140 km of a journey in 10 hours and the next 260 km in 15 hours.

Total distance = $140 + 260 = 400$ km

Total time = $10 + 15 = 25$ hours

So, the average speed = Total distance / Total time = $400 / 25 = 16$ km/hr

Hence, the correct answer is 16 km/hr.

Q144. A and B worked together and received a total of Rs. 18,000 for 15 days. A's efficiency in the work was 5 times that of B's. The daily wage of A (in Rs.) was:

- 1) 800
- 2) 600
- 3) 1,200
- 4) 1,000

Correct Option: 4)

Solution

Let the daily wage of A as W_a and the daily wage of B as W_b .

Given that A's efficiency is 5 times that of B's.

$$\Rightarrow W_a = 5 \times W_b$$

Also, given that A and B together received a total of Rs. 18,000 for 15 days.

$$\Rightarrow 15 \times (W_a + W_b) = 18,000$$

Substituting $W_a = 5 \times W_b$ into the equation,

$$\Rightarrow 15 \times (5 \times W_b + W_b) = 18,000$$

$$\Rightarrow W_b = \text{Rs. } 200$$

Therefore, the daily wage of A is:

$$\Rightarrow W_a = 5 \times W_b = 5 \times 200 = \text{Rs. } 1,000$$

Hence, the correct answer is 1,000.

Q145. A and B can do a work together in 18 days. A is three times as efficient as B. In how many days can B alone complete the work?

- 1) 60 days
- 2) 72 days
- 3) 54 days
- 4) 64 days

Correct Option: 2)

Solution

Given: A and B can do a work together in 18 days.

A is three times as efficient as B.

Total work = Time \times Efficiency

Let the efficiencies of B and A are 1 and 3 respectively.

So, total work = $18 \times 4 = 72$ units

Time taken by B = $72/1 = 72$ days.

Hence, the correct answer is 72 days.

Q146. A and B invested money in a business in the ratio of 7 : 5. If 15% of the total profit goes to charity and A's share in the profit is Rs. 5,950, then what is the total profit?

1) Rs. 12,500

2) Rs. 12,000

3) Rs. 10,500

4) Rs. 11,750

Correct Option: 2)

Solution

Charity = 15% of the total profit

Investment ratio = profit ratio = 7:5

Profit shared = 85% of the total profit

A's share = $7/(7+5) \times$ profit shared

$\Rightarrow 5950 = 7/12 \times$ profit shared

\Rightarrow Profit shared = $(5950 \times 12)/7 = 10,200$

Total profit = $10200 \times 100/85 = 12,000$

Hence, the correct answer is Rs. 12,000.

Q147. The third proportion to 25 and 35 is:

1) 35

- 2) 49
- 3) 40
- 4) 25

Correct Option: 2)

Solution

Let x be the third proportional to 25 and 35.

Then $25:35::35:x$

$\Rightarrow 25 \times x = 35 \times 35$ [Product of extremes]

$\Rightarrow x = (35 \times 35) / 25 = 7 \times 7 = 49$

Hence, the correct answer is 49.

Q148. The average number of runs conceded by a bowler in five matches is 45 and 15.75 in the other four matches. What is the average number of runs conceded by the bowler in nine matches?

- 1) 15
- 2) 32
- 3) 35
- 4) 53.5

Correct Option: 2)

Solution

Given: The average number of runs conceded in 5 matches is 45.

The average number of runs conceded in 4 matches is 15.75.

The total matches are 9.

According to the question,

The total runs conceded in 5 matches = $45 \times 5 = 225$

The total runs conceded in 4 matches = $15.75 \times 4 = 63$

The total runs conceded in 9 matches = $225 + 63 = 288$

So, Average runs conceded in 9 matches = $288/9 = 32$

Hence, the correct answer is 32.

Q149. The average number of runs scored by a cricket player in 11 innings is 63, the average of his first six innings is 60, and the average of his last six innings is 65. Find the runs scored by him in the sixth inning.

- 1) 60
- 2) 54
- 3) 67
- 4) 57

Correct Option: 4)

Solution

Given: The average score of runs in 11 innings is 63.

So, the total number of runs = $(11 \times 63) = 693$

The average score of the first 6 innings is 60.

So, the total runs in the first 6 innings is $6 \times 60 = 360$

The average score of his last 6 innings is 65.

So, the total runs in the last 6 innings is $6 \times 65 = 390$

Total runs scored in the 6th inning = $360 + 390 - 693 = 750 - 693 = 57$

Hence, the correct answer is 57.

Q150. Pipes A, B and C together can fill a cistern in 12 hours. All three pipes are opened together for 4 hours and then C is closed. A and B together take 10 hours to fill the remaining part of the cistern. C alone will fill two-thirds of the cistern in:

- 1) 60 hours
- 2) 40 hours
- 3) 48 hours
- 4) 50 hours

Correct Option: 2)

Solution

Pipes A, B, and C together can fill the cistern in 12 hours.

So, their combined rate is $\frac{1}{12}$ unit per hour.

All three pipes are opened together for 4 hours, so they fill $4 \times \frac{1}{12} = \frac{1}{3}$ of the cistern.

This leaves $1 - \frac{1}{3} = \frac{2}{3}$ of the cistern to be filled. Pipes A and B together take 10 hours to fill this remaining part.

So, their combined rate is $\frac{2}{3 \times 10} = \frac{1}{15}$ unit per hour.

Since A, B, and C together have a rate of $\frac{1}{12}$ unit per hour, and A and B together have a rate of $\frac{1}{15}$ unit per hour, the rate of pipe C alone is $\frac{1}{12} - \frac{1}{15} = \frac{1}{60}$ unit per hour.

Therefore, pipe C alone will fill two-thirds of the cistern in $\frac{2}{3} \times 60 = 40$ hours.

Hence, the correct answer is 40 hours.

Q151. Pipes A, B and C can fill a tank in 20, 30 and 60 hours, respectively. Pipes A, B and C are opened at 7 a.m., 8 a.m., and 9 a.m., respectively, on the same day. When will the tank be full?

- 1) 4:40 p.m.
- 2) 5:40 p.m.
- 3) 6:20 p.m.
- 4) 7:20 p.m.

Correct Option: 2)

Solution

LCM of 20, 30 and 60 is 60.

Let, the capacity of the tank = 60 units

Efficiency of A = $\frac{60}{20} = 3$

Efficiency of B = $\frac{60}{30} = 2$

Efficiency of C = $\frac{60}{60} = 1$

Let the time taken by pipes to fill the tank be x hours.

According to the question,

Let A work for x hours

B works for (x-1) hours

C works for (x-2) hours

We know that total work = efficiency \times time

$$\text{So, } 60 = 3x + 2(x-1) + 1(x-2)$$

$$\Rightarrow 60 = 6x - 4$$

$$\Rightarrow 6x = 64$$

$$\Rightarrow x = \frac{32}{3} = 10 \frac{2}{3} = 10 \text{ hrs } 40 \text{ min}$$

Since A starts at 7 a.m

Tank will fill at 7 a.m + 10 hrs 40 min = 5:40 p.m

Hence, the correct answer is 5:40 p.m.

Q152. A, B and C invested their capitals in the ratio 2 : 3 : 5. The ratio of months for which they invested is 4 : 2 : 3, respectively. If the difference between the profit shares of A and B is Rs. 1,86,000, then C's share of profit (in Rs.) is:

- 1) 19,35,000
- 2) 10,29,500
- 3) 15,39,000
- 4) 13,95,000

Correct Option: 4)

Solution

The ratio of capital invested by A, B, and C is 2:3:5.

Let their investments be $2x, 3x$ and $5x$ respectively.

The ratio of the time for which they invested is 4:2:3.

Let these times be $4y, 2y$ and $3y$ respectively.

The profit is proportional to the product of the capital invested and the time for which it was invested.

The ratio of their profits (A:B:C) would be,

$$(2x \times 4y : 3x \times 2y : 5x \times 3y) = 8xy : 6xy : 15xy = 8 : 6 : 15$$

Let the profits of A, B, and C be $8k, 6k$ and $15k$ respectively.

According to the problem, the difference between the profit shares of A and B is Rs. 1,86,000.

$$\Rightarrow 8k - 6k = 186000$$

$$\Rightarrow 2k = 186000$$

$$\therefore k = 93000$$

Now, C's share of the profit = $15k = 15 \times 93000 = 1395000$

Hence, the correct answer is Rs. 13,95,000.

Q153. A and B started a business investing amounts of INR 92,500 and INR 1,12,500, respectively. If B's share in the profit earned by them is INR 9,000, what is the total profit (in INR) earned by them together?

- 1) 20,000
- 2) 16,400
- 3) 19,000
- 4) 21,240

Correct Option: 2)

Solution

Profit is divided by the ratio of investment.

According to the question

Ratio of profit = $92500:112500=37:45$

Let the total profit be INR x .

Share of B = $\frac{45}{45+37} \times x$

$\Rightarrow 9000 = \frac{45}{82} \times x$

$\therefore x = 16400$

Hence, the correct answer is INR 16,400.

Q154. A cube of edge 6 cm is painted on all sides and then cut into unit cubes. The number of unit cubes with no sides painted is:

- 1) 0
- 2) 64
- 3) 186
- 4) 108

Correct Option: 2)

Solution

Here, $n = 6$

The number of small cubes with no sides painted = $(n-2)^3 = (6-2)^3 = 64$
Hence, the correct answer is 64.

Q155. If the numerical value of twice the curved surface area of a right circular cylinder is equal to the numerical value of its volume, then what is the numerical value of the radius of the base of the cylinder?

- 1) 2
- 2) 3
- 3) 5
- 4) 4

Correct Option: 4)

Solution

According to the question,

$$2\pi rh \times 2 = \pi r^2 h$$

$$\Rightarrow 4 = r$$

$$\Rightarrow r = 4 \text{ units}$$

Hence, the correct answer is 4.

Q156. The area of the base of a rectangular tank is 70 m² and the volume of water contained in it is 2800 m³. What is the depth of the water?

- 1) 30 m
- 2) 40 m
- 3) 50 m
- 4) 60 m

Correct Option: 2)

Solution

Given: Volume = 2800 m³

Area of base = 70 m^2

The volume of the Rectangular tank = Area of base \times Height

Putting the values, we get:

$$2800 = 70 \times \text{Height}$$

$$\Rightarrow \text{Height} = 2800/70 = 40$$

Hence, the correct answer is 40 m.

Q157. Calculate the total surface area of the cube of side 45 m.

- 1) 12150 m^2
- 2) 1213 m^2
- 3) 1342 m^2
- 4) 2341 m^2

Correct Option: 1)

Solution

Given: The cube of side 45 m.

The total surface area of the cube of side a is $6a^2 = 6 \times (45)^2 = 12150 \text{ m}^2$ Hence, the correct answer is 12150 m^2 .

Q158. The curved surface area of a cylinder is five times the area of its base. Find the ratio of the radius and height of the cylinder.

- 1) 2 : 3
- 2) 3 : 5
- 3) 2 : 5
- 4) 3 : 4

Correct Option: 3)

Solution

Given: The curved surface area of a cylinder is five times the area of its base. Use the formulas,

The curved surface area of the cylinder $=2\pi rh$,

The area of the base of the cylinder $=\pi r^2$,

where r and h are the radius and height respectively.

According to the question,

$$2\pi rh/(\pi r^2) = 5/1$$

$$\Rightarrow 2h/r = 5/1$$

$$\Rightarrow r/h = 2/5$$

Hence, the correct answer is 2:5.

Q159. A room is in the shape of a cuboid of dimensions 4 m, 2 m and 8 m. If a bag of grain occupies a space of 0.50 m^3 , then how many such bags can be stored in the room?

- 1) 128 bags
- 2) 144 bags
- 3) 108 bags
- 4) 118 bags

Correct Option: 1)

Solution

Given: Dimension of room $=4\text{m} \times 2\text{m} \times 8\text{m}$

Volume of the room $=4 \times 2 \times 8 = 64 \text{ m}^3$

The volume of a bag of grain $=0.50 \text{ m}^3$

Total such bags can be stored in room = Volume of the room / Volume of bag of grain
 $=64/0.50 = 128$

Hence, the correct answer is 128 bags.

Q160. A speaks the truth 5 out of 7 times and B speaks the truth 8 out of 9 times. What is the probability that they contradict each other in stating the same fact?

- 1) $1/7$
- 2) $1/9$

- 3) $1/7$
4) $1/3$

Correct Option: 4)

Solution

Probability of A speaking truth $=5/7=P(A)$
 \Rightarrow Probability of A lying $=1-5/7=2/7=P(A')$
 Probability of B speaking truth $=8/9=P(B)$
 \Rightarrow Probability of B lying $=1-8/9=1/9=P(B')$
 \therefore Required probability
 $=P(A) \times P(B') + P(A') \times P(B)$
 $=5/7 \times 1/9 + 2/7 \times 8/9$
 $=5/63 + 16/63$
 $=21/63$
 $=1/3$
 Hence, the correct answer is $1/3$.

Q161. A glass jar contains 6 white, 8 black, 4 red, and 3 blue marbles. If a single marble is chosen at random from the jar, what is the probability that it is black or blue?

- 1) $8/21$
2) $11/21$
3) $5/21$
4) $1/7$

Correct Option: 2)

Solution

Given: A glass jar contains 6 white, 8 black, 4 red, and 3 blue marbles.
 Number of total marbles $=(6+8+4+3)=21$
 Number of total black and blue marbles $=(8+3)=11$
 So, the probability of a chosen marble being black or blue $=11/21$

Hence, the correct answer is 11/21.

Q162. The probabilities of solving a problem by three students A,B, and C are $\frac{3}{7}$, $\frac{5}{9}$ and $\frac{1}{5}$, respectively. The probability that the problem will be solved is:

- 1) $\frac{155}{315}$
- 2) $\frac{64}{315}$
- 3) $\frac{251}{315}$
- 4) $\frac{32}{315}$

Correct Option: 3)

Solution

Let A,B, and C respectively denote the events that the problem is solved by A,B, and C respectively and A' , B' , and C' respectively denote the events that the problem will not be solved.

$$P(A)=\frac{3}{7};P(A')=\frac{4}{7}$$

$$P(B)=\frac{5}{9};P(B')=\frac{4}{9}$$

$$P(C)=\frac{1}{5};P(C')=\frac{4}{5}$$

The problem will be solved if even one of them solves it.

So, first we calculate the probability that is not solved

$$=P(A')\times P(B')\times P(C')=\frac{4}{7}\times\frac{4}{9}\times\frac{4}{5}=\frac{64}{315}$$

So, The required probability $=1-\frac{64}{315}=\frac{251}{315}$

Hence, the correct answer is $\frac{251}{315}$.

Q163. $(91 + 92 + 93 + \dots + 110)$ is equal to:

- 1) 4020
- 2) 2010
- 3) 6030
- 4) 8040

Correct Option: 2)

Solution

First term, $a=91$

Last term, $l=110$

Number of terms, $n=20$

The sum of n terms of series $=n/2(a+l)$

The sum of 20 terms of series $=20/2(91+110)=10(91+110)=2010$

Hence, the correct answer is 2010.

Q164. Which one of the following is a factor of the sum of the first twenty-five natural numbers?

- 1) 26
- 2) 24
- 3) 13
- 4) 12

Correct Option: 3)

Solution

Given: $n=25$

The sum of the first n natural numbers $=\frac{n(n+1)}{2}=\frac{(25 \times 26)}{2}=25 \times 13$ The factors of the sum of the first 25 natural numbers are 13 and 25. Hence, the correct answer is 13.

Q165. Let $R= \{(3,3), (5,5), (9,9), (12,12), (5,12), (3,9), (3,12), (3,5)\}$ be a relation on the set $A= \{3,5,9,12\}$. Then R is :

- 1) reflexive , symmetric but not transitive
- 2) symmetric, transitive but not reflexive
- 3) an equivalence relation.
- 4) reflexive, transitive but not symmetric

Correct Option: 4)

Solution

Let $R= \{(3,3), (5,5), (9,9), (12,12), (5,12), (3,9), (3,12), (3,5)\}$ be a relation on the set

$A= \{3,5,9,12\}$

Clearly, every element of A is related to itself. Therefore, it is reflexive.

Now, R is not symmetric because 3 is related to 5 but 5 is not related to 3.

Also, R is a transitive relation because it satisfies the property that if aRb and bRc then aRc .

Hence, the answer is option 4.

Q166. Let $S = \{x \mid x \text{ is a positive multiple of 3 less than 100}\}$ $P = \{x \mid x \text{ is a prime number less than 20}\}$. Then $n(S) + n(P)$ is

- 1) 34
- 2) 41
- 3) 33
- 4) 30

Correct Option: (2).

Solution

Given that: $S = \{x \mid x \text{ is a positive multiple of 3} < 100\}$

$S = \{3, 6, 9, 12, 15, 18, \dots, 99\}$

$n(S) = 33$

$T = \{x \mid x \text{ is a prime number} < 20\}$

$T = \{2, 3, 5, 7, 11, 13, 17, 19\}$

$n(T) = 8$

So, $n(S) + n(T) = 33 + 8 = 41$

Hence, (2) is correct.

Q167. The average of 20 numbers is calculated as 35. It is discovered later on that while calculating the average, one number, 85, was misread as 45. The correct average is:

- 1) 36
- 2) 36.5
- 3) 37

4) 37.5

Correct Option: 3)

Solution

The average of 20 numbers = 35

The sum of 20 numbers = $20 \times 35 = 700$

Now add 85 and subtract 45,

Correct sum = $700 - 45 + 85 = 740$

Correct average = $740/20 = 37$

Hence, the correct answer is 37.

Q168. For a sample data, mean = 60 and median = 48. For this distribution, the mode is:

1) 18

2) 48

3) 36

4) 24

Correct Option: 4)

Solution

Given: Mean = 60 Median = 48

We know, Mode = $(3 \text{ Median} - 2 \text{ Mean})$

$\Rightarrow \text{Mode} = (3 \times 48) - (2 \times 60)$

$\Rightarrow \text{Mode} = 144 - 120$

Mode = 24

Hence, the correct answer is 24.

Q169. You have a collection of 10 different candies. If you want to create a bag of 3 candies, how many different combinations of candies can you put in the bag?

1) 30 combinations

2) 120 combinations

- 3) 220 combinations
- 4) 720 combinations

Correct Option: 2)

Solution

To find the number of different combinations of 3 candies you can put in the bag from a collection of 10 different candies, you can use combinations. Specifically, you want to calculate the number of ways to choose 3 candies out of 10.

$${}^{10}C_3 = \frac{10!}{3!(10-3)!} = 120$$

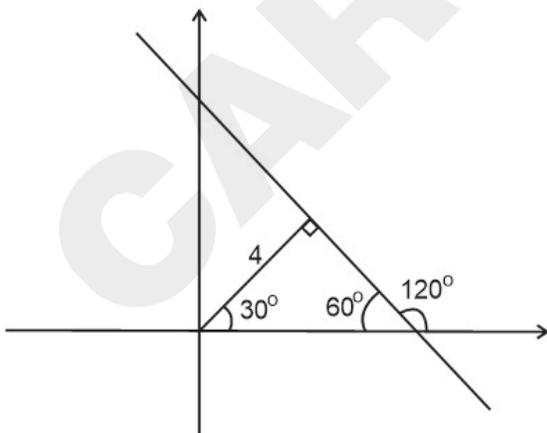
So, you can create 120 different combinations of candies in the bag.
Hence, the correct answer is 120 combinations.

Q170. Find equation of straight line on which length of perpendicular from the origin is four units and the line makes an angle of 120° with the positive direction of x-axis. (Given that line has positive y - intercept)

- 1) $\sqrt{3}x + y = 8$
- 2) $\sqrt{3}x - y = 8$
- 3) $x - y = 8$
- 4) None of these

Correct Option: 1)

Solution



$$\therefore \theta = 30^\circ, \quad p = 4$$

$$\text{Equation } x \cos \theta + y \sin \theta = p$$

$$\Rightarrow \cos 30^\circ x + \sin 30^\circ y = 4$$

$$\Rightarrow \frac{\sqrt{3}}{2}x + \frac{1}{2}y = 4$$

$$\Rightarrow \sqrt{3}x + y = 8$$

Q171. If $f(x) = \frac{\sin^{-1}(1 - \{x\}) \cos^{-1}(1 - \{x\})}{(1 - \{x\})\sqrt{2\{x\}}}$, where $\{x\}$ denotes fractional part of x , then

- 1) $\lim_{x \rightarrow 0^-} f(x) = \frac{\pi}{2\sqrt{2}}$
- 2) $\lim_{x \rightarrow 0^-} f(x) = \sqrt{2} \lim_{x \rightarrow 0^+} f(x)$
- 3) $\lim_{x \rightarrow 0^-} f(x) = \frac{\pi}{\sqrt{2}}$
- 4) $\lim_{x \rightarrow 0^+} f(x) = -\sqrt{2} \lim_{x \rightarrow 0^-} f(x)$

Correct Option: 1)

Solution

$$\therefore \text{when } x \rightarrow 0^- \Rightarrow \{x\} = 1 + x$$

$$\therefore \lim_{x \rightarrow 0^-} f(x) = \lim_{x \rightarrow 0} \frac{\cos^{-1}(-x) \sin^{-1}(-x)}{\sqrt{2(1+x)}(-x)} = \frac{\pi}{2\sqrt{2}}$$

$$\therefore \text{when } x \rightarrow 0^+ \Rightarrow \{x\} = x$$

$$\therefore \lim_{x \rightarrow 0^+} f(x) = \lim_{x \rightarrow 0} \frac{\cos^{-1}(1-x) \sin^{-1}(1-x)}{\sqrt{2x}(1-x)} = -\frac{\pi}{2}$$

Q172. Find inverse of matrix $A = \begin{bmatrix} 1 & 3 \\ -3 & 4 \end{bmatrix}$

1) $A^{-1} = \begin{bmatrix} \frac{7}{13} & \frac{2}{13} \\ \frac{3}{13} & \frac{1}{13} \end{bmatrix}$

2) $A^{-1} = \begin{bmatrix} \frac{4}{13} & \frac{3}{13} \\ \frac{3}{13} & \frac{1}{13} \end{bmatrix}$

3) $A^{-1} = \begin{bmatrix} \frac{7}{13} & -\frac{2}{13} \\ \frac{3}{13} & \frac{1}{13} \end{bmatrix}$

4) $A^{-1} = \begin{bmatrix} \frac{4}{13} & -\frac{3}{13} \\ \frac{3}{13} & \frac{1}{13} \end{bmatrix}$

Correct Option: 4)

Solution

Using elementary operations to compute the inverse of matrix of order 2 -

Steps for finding the inverse of a matrix of order 2 by elementary row operation

Step 1 : Write $A = I_n A$

Step II : Perform a sequence of elementary row operations successively on A on the LHS and the pre factor I_n on the RHS till we obtain the result $I_n = BA$

Step III: Write $A^{-1} = B$

Use $AA^{-1}=I$

$$\begin{bmatrix} 1 & 3 \\ -3 & 4 \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} A$$

$$R_2 \rightarrow 3R_1 + R_2$$

$$\begin{bmatrix} 1 & 3 \\ 0 & 13 \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 3 & 1 \end{bmatrix} A$$

$$R_2 \rightarrow \frac{1}{13}R_2$$

$$\begin{bmatrix} 1 & 3 \\ 0 & 1 \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ \frac{3}{13} & \frac{1}{13} \end{bmatrix} A$$

$$R_1 \rightarrow R_1 - 3R_2$$

$$\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} = \begin{bmatrix} \frac{4}{13} & -\frac{3}{13} \\ \frac{3}{13} & \frac{1}{13} \end{bmatrix} A$$

hence,

$$A^{-1} = \begin{bmatrix} \frac{4}{13} & -\frac{3}{13} \\ \frac{3}{13} & \frac{1}{13} \end{bmatrix}$$

Q173. If θ is a positive acute angle and $\tan 2\theta \tan 3\theta = 1$, then the value of $2(\cos^2 5\theta/2 - 1)$ is:

- 1) $-1/2$
- 2) -1
- 3) 0
- 4) $1/2$

Correct Option: 2)

Solution

Given:

$$\tan 2\theta \tan 3\theta = 1$$

$$\text{or, } \tan 2\theta = \cot 3\theta$$

$$\text{or, } \tan 2\theta = \tan(90 - 3\theta)$$

$$\text{or, } 2\theta = 90 - 3\theta$$

$$\text{or, } 5\theta = 90$$

$$\therefore \theta = 18$$

$$\begin{aligned}
& 2(\cos^2 5\theta/2-1) \\
& =2(\cos^2 (5\times 18^\circ)/2-1) \\
& =2(\cos^2 45^\circ -1) \\
& =2\times (1/\sqrt{2})^2 -1) \\
& =2\times -1/2 \\
& = -1
\end{aligned}$$

Hence, the answer is -1 .

Q174. For any acute angle θ , $\sin\theta+\sin^2\theta=1$, then the value of $\cos^2\theta+\cos^4\theta=$ _____

- 1) 0
- 2) 1
- 3) 2
- 4) -1

Correct Option: 2)

Solution

Given:

$$\sin\theta+\sin^2\theta=1$$

$$\Rightarrow \sin\theta=1-\sin^2\theta$$

$$\Rightarrow \sin\theta=\cos^2\theta$$

$$\cos^2\theta+\cos^4\theta=\sin\theta+\sin^2\theta=1$$

Hence, the correct answer is 1.

Q 175. A number, when divided by the sum of 555 and 445, gives two times their difference as the quotient and 30 as the remainder. The number is:

- 1) 220030
- 2) 22030
- 3) 1220
- 4) 1250

Correct Option: 1)

Solution

Given: Divisor = $555 + 445 = 1000$; Quotient = $2(555 - 445) = 220$; Remainder = 30

We know, Dividend = (Divisor \times Quotient) + Remainder

$$\Rightarrow \text{Dividend} = (1000 \times 220) + 30$$

$$\text{Dividend} = 220030$$

Hence, the correct answer is 220030.

Q176. N is the largest two-digit number which, when divided by 3, 4, and 6, leaves the remainder of 1, 2, and 4, respectively. What is the remainder when N is divided by 5?

- 1) 4
- 2) 2
- 3) 3
- 4) 1

Correct Option: 1)

Solution

LCM of 3, 4, and 6 is 12.

Common difference $d = (3 - 1) = 2$, $(4 - 2) = 2$ and $(6 - 4) = 2$

Since the common difference is the same, i.e., 2.

The largest 2-digit number formed which is a multiple of 12 is $12 \times 8 = 96$

$$N = 96 - 2 = 94$$

So, when 94 is divided by 5, the remainder is 4

Hence, the correct answer is 4.

Q171. A and B are positive integers. If $A + B + AB = 65$, then what is the difference between A and B ($A, B < 15$)?

- 1) 3
- 2) 4
- 3) 5
- 4) 6

Correct Option: 3)

Solution

Given: $A + B + AB = 65$, where $(A, B < 15)$

Try numbers from 1 to 14 for A and B.

A = 10 and B = 5 satisfy the given equation.

Hence, $(A - B) = (10 - 5) = 5$

Hence, the correct answer is 5.

Q178. Let the speed of the boat in still water be 17 km/hr and let the speed of the stream be 5 km/hr. What is the time taken by the boat to go 110 km downstream?

- 1) 4.5 hours
- 2) 6 hours
- 3) 5.5 hours
- 4) 5 hours

Correct Option: 4)

Solution

The downstream speed of the boat is the sum of the speed of the boat in still water and the speed of the stream.

The downstream speed of the boat is $17 \text{ km/hr} + 5 \text{ km/hr} = 22 \text{ km/hr}$

Time = Distance / Speed

So, the time taken by the boat to go 110 km downstream is:

Time = $110 \text{ km} / 22 \text{ km/hr} = 5 \text{ hours}$

Hence, the correct answer is 5 hours.

Q179. A tourist van travels the distance of 35 km from Dehradun to Mussoorie at an average speed of 36 km/h and returns at 60 km/hr. What is the approximate average speed (in km/hr) of the tourist van for the entire journey?

- 1) 48
- 2) 42

3) 45

4) 50

Correct Option: 3)

Solution

Speed of going = 36 km/hr

Speed of coming = 60 km/hr

We know that,

Average speed = $2 \times (\text{Speed of going}) \times (\text{Speed of coming}) / (\text{Speed of going}) + (\text{Speed of coming})$

$$= (2 \times 36 \times 60) / (36 + 60)$$

$$= 4320 / 96$$

$$= 45 \text{ km/hr}$$

Hence, the correct answer is 45.

Q180. If a truck moves at a constant speed of 30 km/hr for 1 kilometre and 45 km/hr for the next 1 kilometre. What is the average speed of the truck?

1) 32 km/hr

2) 36 km/hr

3) 38 km/hr

4) 34 km/hr

Correct Option: 2)

Solution

Total distance covered in 2 km/hr.

The time taken for the first kilometre at 30 km/h = $1/30$ hours

The time taken for the second kilometre at 45 km/h = $1/45$ hours

Total Time taken:

$$= 1/30 + 1/45$$

Now using the average speed formula:

$$\Rightarrow \text{Average speed} = \text{Total Distance} / \text{Total Time} = 2 / (1/30 + 1/45) = 2 / (5/90) = (2 \times 90) / 5 = 180 / 5 = 36 \text{ km/hr}$$

Hence, the correct answer is 36 km/hr.

Q181. A man walks at a speed of 8 km/h. After every kilometre, he takes a rest for 4 minutes. How much time will he take to cover a distance of 6 km?

- 1) 70 minutes
- 2) 60 minutes
- 3) 69 minutes
- 4) 65 minutes

Correct Option: 4)

Solution

Speed of man = 8 km/hr

Distance = 6 km

Time of rest = 4 minute

Speed = Distance/time

8 km distance covered by man in 1 hour

⇒ 6 km distance will be covered by man in $\frac{1}{8} \times 6$ hrs i.e. in 45 minutes.

Also, he must rest 5 times to cover 6 Km for 4 minutes.

So, time taken to rest = $5 \times 4 = 20$ minutes

⇒ Total time taken by him = 65 minutes

It will take 65 minutes to cover a distance of 6 km.

Hence, the correct answer is 65 minutes.

Q182. A person travelled from station A to station B at 40 km/h and from B to A at 30 km/h. The entire journey took 6.3 hours. What is the distance (in km) between A and B?

- 1) 117
- 2) 108
- 3) 91
- 4) 99

Correct Option: 2)

Solution

Let the Distance be $120x$ km.

Time taken to travel from A to B at 40 km/h is $120x/40$ hrs= $3x$ hrs

Time taken to travel from B to A at 30 km/h is $120x/30$ hrs= $4x$ hrs

Total Time = $4x+3x=7x$ hrs

Distance = $120x/7x \times 6.3=120 \times 0.9$

=108 km

Hence, the correct answer is 108.

Q183. The average weight of nine persons is 25 kg. If a new person joins this group, then the average weight becomes 26 kg. What is the weight of the new person?

- 1) 35 kg
- 2) 28 kg
- 3) 34 kg
- 4) 30 kg

Correct Option: 1)

Solution

The average weight of 9 persons = 25 kg

The sum of weights of 9 persons = $25 \times 9 = 225$ kg

The new average weight of 10 persons = 26 kg

The new sum of weights = $26 \times 10 = 260$ kg

Let x be the weight of the new person.

So, $225 + x = 260$

$x = 260 - 225 = 35$ kg

Hence, the correct answer is 35 kg.

Q184. The average age of 5 children is 10 years. If two more children of ages 11 years and 16 years join, then what will be the new average age?

- 1) 11 years
- 2) 10 years

- 3) 13 years
- 4) 12 years

Correct Option: 1)

Solution

The average age of 5 children = 10 years

Sum of the ages of 5 children = $10 \times 5 = 50$

Age of first new child = 11 years

Age of second new child = 16 years

Total ages of 7 children = $50 + 11 + 16 = 77$ years

So, the required average = Sum of the ages of 7 children / Total children
 $= 77 / 7$

= 11 years

Hence, the correct answer is 11 years.

Q185. The average age of 9 girls is 16 years. The average age of 11 boys is 26 years. What is the average age of all these boys and girls taken together?

- 1) 22 years
- 2) 23 years
- 3) 22.5 years
- 4) 21.5 years

Correct Option: 4)

Solution

Given,

The average age of 9 girls is 16 years. The average age of 11 boys is 26 years.

We know,

Average = Sum of all observations / Total no of observations

The average age of all together = $9 \times 16 + 11 \times 26 / 9 + 11 = 430 / 20 = 21.5$

Hence, the correct answer is 21.5 years.

Q186. If each side of a rectangle is decreased by 11%, then its area will decrease by:

- 1) 25%
- 2) 21.13%
- 3) 24.31%
- 4) 20.79%

Correct Option: 4)

Solution

Let the original length = 100, original breadth = 100

We know the area of a rectangle = Length \times Breadth

So, original Area = $100 \times 100 = 10000$

Reduced length = 89, reduced breadth = 89

So, new area = $89 \times 89 = 7921$

Decrease in area = $10000 - 7921 = 2079$

Percentage decrease in area = $2079/10000 \times 100 = 20.79\%$

Hence, the correct answer is 20.79%.

Q187. The point P is the midpoint of the segment AB. The coordinates of point P are (2, 1) and that of point A are (11, 5). The coordinates of point B are:

- 1) (-7, -3)
- 2) (6.5, 3)
- 3) (7, 3)
- 4) (-6.5, -3)

Correct Option: 1)

Solution

Given: The coordinates of the point A are (11,5).

Let the co-ordinates of the point B be (x,y).

Since, the point P(2,1) is the mid-point,

$$\Rightarrow 2 = (11+x)/2$$

$$\Rightarrow 2 \times 2 = 11+x$$

$$\Rightarrow x = -7$$

Similarly, $1 = (5+y)/2$

$$\Rightarrow 1 \times 2 = 5+y$$

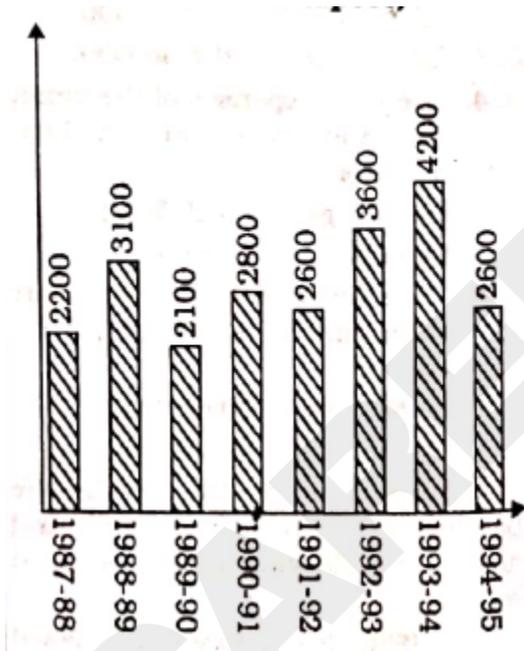
$$\Rightarrow y = -3$$

So, the coordinates of B are (-7, -3).

Hence, the correct answer is (-7, -3).

Q188. Directions: Read the following graph and answer questions

Trade Deficit of a Country (in Crores of Rupees)



Percentage increase in production of fertilizers for a year with respect to its previous year was maximum in the year.

- 1) 1996
- 2) 1997
- 3) 1999

4) 2000

Correct Option: 1)

Solution

The percentage increase in production compared to previous year for different years are:

In 1996= $[(40-25)/25 \times 100]\% = 60\%$.

In 1997= $[(60-40)/40 \times 100]\% = 50\%$.

In 1998 there is a decrease in production.

In 1999= $[(65-45)/45 \times 100]\% = 44.44\%$.

In 2000 there is a decrease in production.

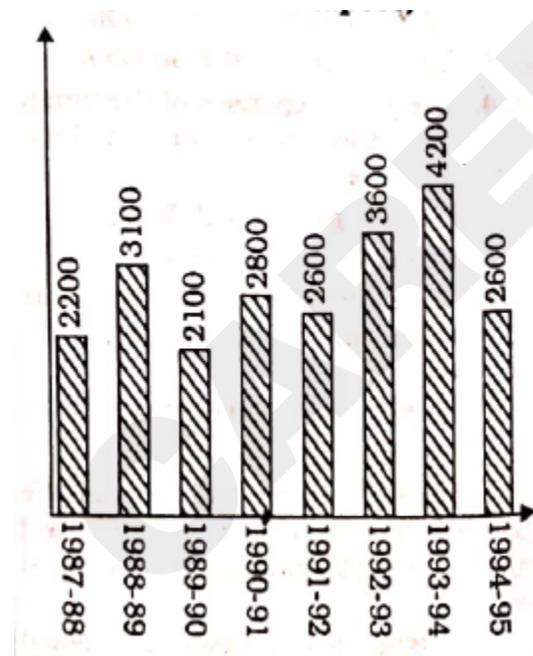
In 2001= $[(75-50)/50 \times 100]\% = 50\%$.

In 2002= $[(80-75)/75 \times 100]\% = 6.67\%$.

Clearly, there is maximum percentage increase in production in 1996.

Q189. Directions: Read the following graph and answer questions

Trade Deficit of a Country (in Crores of Rupees)



The year in which the production of fertilizers is nearest to the average production of all the six years, is

1) 1999

- 2) 1998
- 3) 1995
- 4) 2000

Correct Option: 4)

Solution

According to given bar graph in question ,

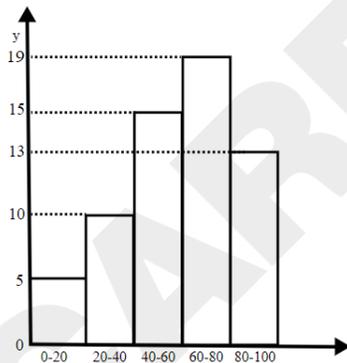
Sum of the production of fertilizers for all the six years = $70 + 80 + 90 + 80 + 60 + 75 = 455$ lakh tonnes

Total number of years = 6

In year 2000 average production of fertilizers = $455/6$ lakh tonnes

Hence, required answer is the year 2000.

Q190. Directions: In the following question, the following histogram shows the relationship between the marks obtained by the students and the number of students in an examination. Study the histogram and answer the questions.



The percentage of students who obtained 40 marks or less is ___.

- 1) 25
- 2) less than 25, but not 15
- 3) more than 24

4) 15

Correct Option: 3)

Solution

Based on the given graph in question,

Total number of students = $5+10+15+19+13=62$

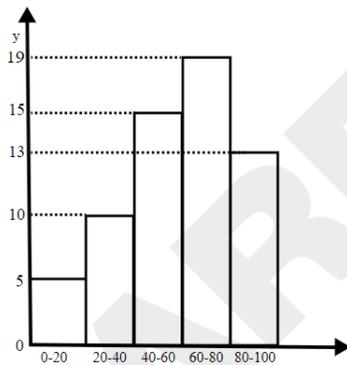
Number of students who obtained 40 marks or less = 15

Required percentage = Number of students who obtained 40 marks or less / Total number of students $\times 100\%$

Required percentage = $15/62 \times 100 \approx 24.2\%$

Hence, the answer is more than 24.

Q191. Directions: In the following question, the following histogram shows the relationship between the marks obtained by the students and the number of students in an examination. Study the histogram and answer the questions.



The ratio of the number of students who obtained 60 or more marks to that of students who obtained 60 or less marks is:

- 1) 15:16
- 2) 15:19
- 3) 14:17

4) 16:15

Correct Option: 4)

Solution

The number of students who obtained 60 or more marks = $19 + 13 = 32$

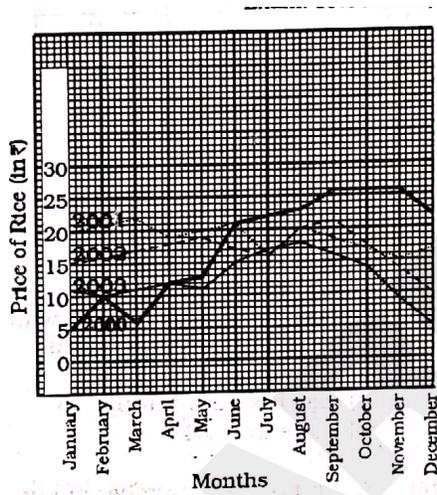
The number of students who obtained 60 or fewer marks is = $15 + 10 + 5 = 30$

Ratio = $32/30 = 16/15$

Ratio of the number of students who obtained 60 or more marks to that of students who obtained 60 or fewer marks is 16:15

Hence, the answer is 16:15.

Q192. Directions: A graph showing the price of rice in India during the years 2000 to 2003 is given below. Study the graph carefully and answer the questions.



For the month of May, the graph shows that the price of rice was the lowest in the year:

- 1) 2000
- 2) 2001
- 3) 2002
- 4) 2003

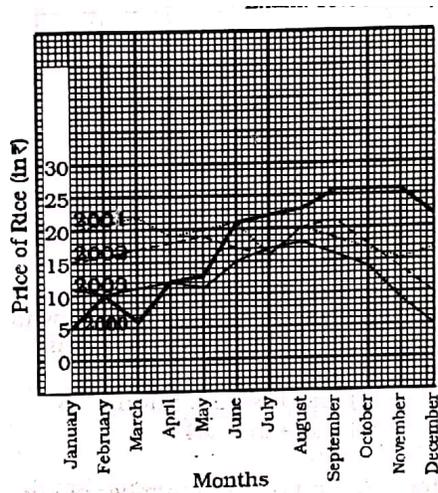
Correct Option: 4)

Solution

From the given graph, the price of rice is seen lowest in 2003.

Hence, the answer is 2003.

Q193. Directions: A graph showing the price of rice in India during the years 2000 to 2003 is given below. Study the graph carefully and answer the questions.



The range of price for a year is the difference between the maximum and the minimum prices for that year. The graph shows that this range of price was the greatest for the year

- 1) 2000
- 2) 2001
- 3) 2002
- 4) 2003

Correct Option: 1)

Solution

Range of prices in different years:

$$\text{Year 2000} = 23 - 5 = 18$$

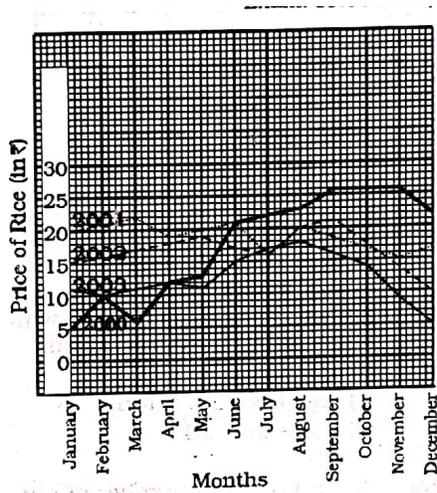
$$\text{Year 2001} = 20 - 17 = 3$$

$$\text{Year 2002} = 14 - 10 = 4$$

$$\text{Year 2003} = 11 - 5 = 6$$

The greatest range is seen in the year 2000.
Hence, the answer is 2000.

Q194. Directions: A graph showing the price of rice in India during the years 2000 to 2003 is given below. Study the graph carefully and answer the questions.



The month in which the price of rice was equal for the year 2000 and 2001 was:

- 1) September
- 2) August
- 3) June
- 4) November

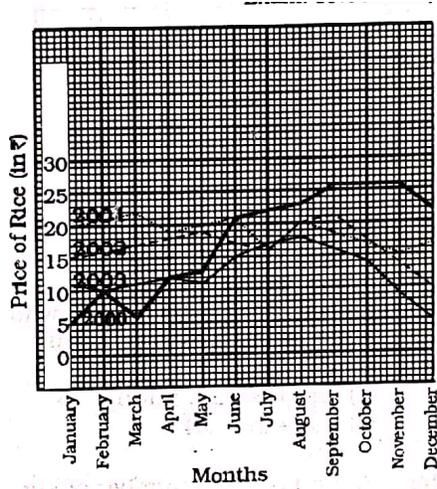
Correct Option: 3)

Solution

On the basis of given table in question,

The price of rice were equal for the year 2000 and 2001 in month June which was 21.
Hence, the correct answer is June.

Q195. Directions: A graph showing the price of rice in India during the years 2000 to 2003 is given below. Study the graph carefully and answer the questions.



The maximum difference in price between any two years was in the month of:

- 1) January
- 2) November
- 3) March
- 4) December

Correct Option: 4)

Solution

From the given table in question,

$$\text{Difference} = 23 - 5 = 18$$

So, the maximum difference in price between any two years was in the month of December.

Hence, the answer is December.

Q196. Directions: Devansh's birthday is on Friday, April 14th. On what day of the week will Rohan's birthday be in the same year if Rohan was born on September 20th?

- 1) Tuesday
- 2) Friday

- 3) Thursday
- 4) Wednesday

Correct Option: 4)

Solution

Let's calculate the number of days between April 14th and September 20th.

Remaining days in April = 16

Days in May = 31

Days in June = 30

Days in July = 31

Days in August = 31

Days in September till 20th = 20

The total number of days is $\rightarrow 16 + 31 + 30 + 31 + 31 + 20 = 159$

On dividing 159 by 7, the remainder is 5. So, five days after Friday is Wednesday.

Rohan's birthday will be on Wednesday. Hence, the fourth option is correct.

Q197. Directions: Dhruv's birthday is on Sunday, May 28th. On what day of the week will Sahil's birthday be in the same year if Sahil was born on October 19th?

- 1) Saturday
- 2) Wednesday
- 3) Thursday
- 4) Sunday

Correct Option: 3)

Solution

Let's calculate the number of days between May 28th and October 19th.

Remaining days in May = 3

Days in June = 30

Days in July = 31

Days in August = 31

Days in September = 30

Days in October till 19th = 19

The total number of days is $\rightarrow 3 + 30 + 31 + 31 + 30 + 19 = 144$

On dividing 144 by 7, the remainder is 4. So, four days after Sunday is Thursday.

Sahil's birthday will be on Thursday. Hence, the third option is correct.

Q198. Directions: Arnav's birthday is on Tuesday, March 14th. On what day of the week will Pranay's birthday be in the same year if Pranay was born on September 13th?

- 1) Monday
- 2) Tuesday
- 3) Wednesday
- 4) Thursday

Correct Option: 3)

Solution

Let's calculate the number of days between March 14th and September 13th.

Remaining days in March = 17

Days in April = 30

Days in May = 31

Days in June = 30

Days in July = 31

Days in August = 31

Days in September till 13th = 13

So, the total number of days is $\rightarrow 17 + 30 + 31 + 30 + 31 + 31 + 13 = 183$

On dividing 183 by 7, the remainder is 1. So, one day after Tuesday is Wednesday.

Pranay's birthday will be on Wednesday. Hence, the third option is correct.

Q199. Directions: The image of a clock in a mirror is seen as 3:15. What is the right time?

- 1) 8:45

- 2) 10:45
- 3) 7:45
- 4) 9:45

Correct Option: 1)

Solution

Given:

Reflected time is 3:15.

Because the time 3:15 lies between 1:00 and 11:00, so to get the actual time subtract the reflected time from 11:60.

$$\text{Actual time} = 11:60 - 3:15 = 8:45$$

So, 8:45 is the right time. Hence, the first option is correct.

Q200. Directions: If the 21st of May 2009 is Thursday, then what will be the day of the week on the 15th of July 2017?

- 1) Saturday
- 2) Tuesday
- 3) Monday
- 4) Sunday

Correct Option: 1)

Solution

Given:

The 21st of May 2009 is Thursday.

Number of days from 22nd of May 2009 to 21st of May 2017 –
 $365 \times 8 = 2920$

Add 2 days for leap years 2012 and 2016.

Number of days from 22nd of May 2017 to 15th of July 2017 –

May = 10; June = 30; July = 15; $10 + 30 + 15 = 55$

Total number of days – $2920 + 2 + 55 = 2977$

After dividing 2977 by 7, we get 2 as the remainder.

Thursday + 2 days = Saturday

So, the 15th of July, 2017 will be Saturday. Hence, the first option is correct.

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