

CAREERS 360

PRACTICE **Series**

NIFT 2025

**BDes Sample
Paper with
Solutions**



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» About This eBook

Dear NIFT Aspirants,

We are excited to share that we have created an eBook for students preparing for the NIFT exam. This comprehensive guide is designed to help you prepare through all aspects of the exam, ensuring you are well-prepared to tackle every challenge with confidence.

What's inside this eBook?

1. **NIFT Exam Pattern** - Detailed breakdown of the exam format for better understanding of the exam.
2. **Importance of solving Sample Papers** - A brief overview of why solving NIFT sample papers will help the students to understand the requirements of the exam.
3. **Tips and Strategies** - Strategies and Tips for tackling the NIFT exam.
4. **Sample Paper**
5. **Answer Key**
6. **Solutions**
7. **Other Useful Resources** - Additional resources such as resource books to aid your preparation.

Dive into your preparation with this guide and move confidently towards achieving your goal of excelling at the NIFT exam.

All The Best!!!!

» NIFT Exam Pattern

Candidates should review the NIFT test pattern 2025 in advance if they intend to take the NIFT entrance exam. Through the NIFT 2025 test pattern, candidates can learn crucial information about how the exam will be administered, including its length, format, marking system, and questions.

While the NIFT exam specifications for the GAT test state that it will be administered in a computer-based test mode (CBT-online), the NIFT entrance exam 2025 CAT will be administered in a pen and paper format. Along with the NIFT test pattern, candidates are also encouraged to consult the NIFT syllabus 2025.

NIFT 2025 Exam Pattern for CAT (Creative Ability Test)

According to the NIFT 2025 exam format, the Creativity Ability Test (CAT) lasts three hours. The sum of the NIFT CAT scores is 100. The paper assesses the candidate's creative use of color, illustration skills, intuition and design ability, and observational power in creating a concept and its design, in accordance with the NIFT CAT syllabus. Students will be assessed based on their drawn responses to the questions on the NIFT CAT exam..

NIFT Exam Pattern 2025 - GAT (General Ability Test)

Particulars	BDes admission
Exam duration	2 hours
Mode of the exam	Computer-Based Mode
Medium of the exam	English/Hindi
The total number of questions	100
Total NIFT GAT marks	100

NIFT Entrance Exam Pattern 2025 BDes – Number of questions

NIFT BDes Entrance Exam Pattern	BDes (Section-wise number of Questions)
Communication Ability & English Comprehension	40
Quantitative Ability	20
Analytical and Logical Ability	15
Current Affairs and General Knowledge	25
Total	100

» Importance of solving NIFT Sample Papers

In order to prepare for the NIFT (National Institute of Fashion Technology) entrance test, candidates must solve NIFT sample problems, which offer the following main advantages:

- **Understanding of Exam Format:** Sample papers help students to understand the format of the test, including the amount of questions, the marking system, and the time limits.
- **Improves Speed:** Aspiring students can improve their ability to manage the limited time allotted for each section of the NIFT exam by practicing with example papers. Students can evaluate how much time you spend on each question by completing example papers under time constraints. This further helps to concentrate on making decisions more quickly for simpler problems and therefore, have more time for more difficult ones.
- **Self-Assessment:** Sample papers help in identifying the areas where candidates are strong and the ones in need to improve on.
- **Confidence:** Solving sample papers, help students become more familiar with the exam, and therefore reducing anxiety on the exam day. Knowing exactly what to expect from the test increases confidence and helps students to perform better under pressure.
- **Accuracy:** Solving sample papers makes students more familiar with the exam. Students can identify and correct common mistakes, improving their accuracy over time.

» Tips and Strategies

A comprehensive strategy that emphasizes both general knowledge and creative abilities is needed to prepare for the NIFT 2025 exam. The General Ability Test (GAT) and the Creative Ability Test (CAT) are the two primary parts of the National Institute of Fashion Technology (NIFT) admission exam. Here are some techniques and advice to help you prepare effectively for this difficult exam and do well on it:

- **Start Early:** It is always good to start early, immediately after the intermediate/board examination, to cover the entire course, covering the whole syllabus for both the GAT (General Aptitude Test) & CAT (Creative Ability Test).
- **Study Plan:** Distribute the time to focus on all the subjects related to the NIFT - exam preparation strategically which is explained below in detail under the "Section-wise Preparation Strategy" section.
- **Understand the NIFT Exam Syllabus in Detail:** Clarity of the syllabus of NIFT would help an aspirant in preparation for the NIFT entrance exam. It will help to map the strengths and weaknesses of the aspirant. Accordingly, they can plan on the time distribution to different subjects and topics. The list of important topics of NIFT 2025 is as follows.
- **Understand the NIFT exam pattern:** Aspirants appearing for the NIFT entrance test must go through the exam pattern of NIFT. In the written entrance exam, students sit for the General Ability Test (GAT) for both BDes and BFTech programmes whereas only BDes candidates can take the Creativity Ability Test (CAT) and Situation Test. Hence, for NIFT entrance exam preparation students must be acquainted with the important topics for NIFT preparation. Also, note that the mode of examination for GAT is CBT (Computer Based Test).

» NIFT BDEs Sample Paper

Q1. What does the term "KYC" stand for in banking?

- A. Know Your Customer
- B. Keep Your Cash
- C. Know Your Currency
- D. Keep Your Credit

Q2. Ahmedabad is situated along the bank of ____.

- A. Sabarmati river
- B. Narmada river
- C. Banas river
- D. Luni river

**Q3. Select the most appropriate meaning of the given idiom.
cut a sorry figure**

- A. render an apology
- B. make a sculpture
- C. create a poor impression
- D. break a record

Q4. Select the option that will improve the underlined part of the sentence. In case no improvement is needed, select 'No Improvement'.

The little boy did many mischiefs in school.

- A. performed many mischiefs
- B. made much mischief
- C. No Improvement
- D. did much mischiefs

Q5. Direction: Maya said, My mother is the sister of Ranjeet's brother. What is Ranjeet's relationship with Maya?

- A. Cousin
- B. Maternal uncle
- C. Uncle
- D. Brother-in-law

Q6. Direction: Abhishek is Byomkesh's brother, and Vimal is Jackie's father. Ella is Byomkesh's mother. Abhishek and Jackie are brothers. How is Ella related to Vimal?

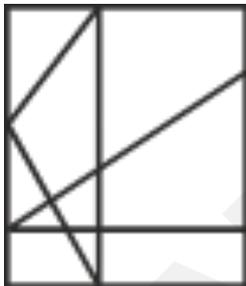
- A. Wife
- B. Daughter
- C. Mother
- D. Sister

Q7. Direction: In the following question, select the number that can be placed at the sign of the question mark (?) from the given alternatives.

3	10	6	186
9	5	3	138
5	7	1	36
3	2	5	?

- A. 35
- B. 42
- C. 45
- D. 95

Q8. Direction: How many triangles are there in the given figure?



- A. 11
- B. 9
- C. 10
- D. 12

Q9. A can do work in 10 days. B can do the same work in 15 days. In how many days can the work be completed if A and B work together?

- A. 6 days.
- B. 4 days.
- C. 8 days.
- D. 10 days.

Q10. The cross-section of a prism is a regular hexagon of side 4 cm and its height measures 12 cm. Find its lateral surface area in cm^2 .

- A. 288
- B. 198
- C. 225
- D. 205

Q11. Convert 72 km/h into m/s.

- A. 20 m/s
- B. 30 m/s
- C. 40 m/s
- D. 50 m/s

Q12. Convert 25 m/s to km/h.

- A. 90 km/h
- B. 40 km/h
- C. 50 km/h
- D. 30 km/h

Q13. What is the SI unit of electric charge?

- A. Volt
- B. Ampere
- C. Coulomb
- D. Ohm

Q14. Which of the following is not a scalar quantity?

- A. Distance
- B. Speed
- C. Time
- D. Force

Q15. Select the option that expresses the given sentence in a passive voice.

India is exporting handicrafts to several countries.

- A. Handicrafts were exported to several countries by India.
- B. Handicrafts are exported to several countries by India.
- C. Handicrafts have been exported to several countries by India.
- D. Handicrafts are being exported to several countries by India.

Q16. Identify the segment that contains a grammatical error. If there is no error, select 'No error'.

The most talented of these three boys are my friend's son.

- A. of these three boys
- B. No error
- C. The most talented
- D. are my friend's son

Q17. Given below are four jumbled sentences. Select the option that gives their correct order forming a meaningful and coherent paragraph.

A courtyard enclosed the little room where the deity was kept.

B. Nayan stood at the entrance and looked in with amazement.

C. The forest grew thicker as she walked and then Nayan caught her first glimpse of the temple.

D. It was an ancient structure and the grey stone walls were covered with moss.

- A. ADBC
- B. CDAB
- C. DACB
- D. CBDA

Q18. Identify the segment that contains a grammatical error.

If I was you, I would not lose my temper in this situation.

- A. If I was you
- B. In this situation
- C. I would not
- D. Lose temper

Q19. Direction: If MUSTARD is written as 132119201184, how is PROFUSE written in that code?

- A. 16815621195
- B. 16181562195
- C. 16181521195
- D. 161815621195

Q20. Direction: Karan has a brother Prem and a sister Neesha. Karan's wife is Naj and has a daughter Naksha. Naksha got married to Neesha's son Akbar and had a baby girl Riya. What is the relation between Naksha and Neesha?

- A. Sister
- B. Niece and Aunt
- C. Mother and daughter
- D. Mother and Granddaughter

Q21. What is the SI unit of electric charge?

- A. Volt
- B. Ampere
- C. Coulomb
- D. Ohm

Q22. Which of the following is not a scalar quantity?

- A. Distance
- B. Speed
- C. Time
- D. Force

Q23. What is the primary function of a credit union?

- A. Issuing credit cards
- B. Providing mortgage loans
- C. Offering savings and checking accounts
- D. Regulating financial markets

Q24. What is the main purpose of the Basel III framework in banking?

- A. To promote international trade
- B. To regulate investment banks
- C. To enhance the stability of the banking system
- D. To control exchange rates

Q25. Govind Ballabh Pant Sagar reservoir is situated in

- A. Chhattisgarh
- B. Jharkhand
- C. Uttarakhand
- D. Uttar Pradesh

Q26. 'Agronomy' is the practice of raising _____

- A. plants and animals
- B. crop plants
- C. agriculture
- D. fruit plants only

Q27. Direction: In the following question below, some statements are followed by some conclusions. Taking the given statements to be true, even if they seem to be at variance from commonly known facts, read all the conclusions and then decide which of the given conclusions logically follows from the given statements.

Statements:

I. We are going back again to our ancestors and finding out the importance of Yoga and Pranayam.

II. People in the West have already opted for it. It does not require any external equipment but only body and soul.

Conclusions:

I. Ancient science is the treasure of many cures and natural remedies for various diseases.

II. Technology has overshadowed these ancient sources and introduced new concepts of fitness called gym.

- A. Only Conclusion II follows
- B. Conclusions I and II both follow
- C. Neither I nor II follows
- D. Only Conclusions I follows

Q28. Direction: In the following question below, some statements are followed by some conclusions. Taking the given statements to be true, even if they seem to be at variance from commonly known facts, read all the conclusions and then decide which of the given conclusions logically follows from the given statements.

Statements:

I. Children play in the playground.

II. It gives them a different approach to problem-solving and decision-making.

Conclusions:

I. Playing outdoors is very necessary for the overall development of a child.

II. There should be a balance between playing and studying for a child.

- A. Only Conclusion II follows
- B. Conclusions I and II both follow
- C. Neither Conclusion I nor II follows
- D. Only Conclusion I follows

Q29. Assertion: The sky appears blue during the day.

Reason: Rayleigh scattering causes shorter wavelengths of light, such as blue, to be scattered in all directions.

- A. Both the assertion and reason are true, and the reason is a correct explanation of the assertion.
- B. Both the assertion and reason are true, but the reason is not a correct explanation of the assertion.
- C. The assertion is true, but the reason is false.
- D. The assertion is false, but the reason is true.

Q30. Assertion: The ozone layer in the Earth's atmosphere protects us from harmful ultraviolet (UV) radiation.

Reason: Ozone molecules in the stratosphere absorb and dissipate UV radiation.

- A. Both the assertion and reason are true, and the reason is a correct explanation of the assertion.
- B. Both the assertion and reason are true, but the reason is not a correct explanation of the assertion.
- C. The assertion is true, but the reason is false.
- D. The assertion is false, but the reason is true.

Q31. According to the given statements, Which of the following options is correct.

Statement 1:

Photosynthesis is the process by which plants convert sunlight into energy.

Statement 2:

Respiration is the process by which plants convert carbon dioxide into oxygen.

- A. Statement 1 is correct, but Statement 2 is incorrect.
- B. Statement 2 is correct, but Statement 1 is incorrect.
- C. Statement 1 is incorrect.
- D. Statement 2 is incorrect.

Q32. Direction: In the following question, a statement is given, followed by two arguments, I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You have to decide which of the given arguments, if any, follows from the given statement.

Statement:

"Should social media companies be required to monitor and remove harmful content?"

Arguments:

I. Yes, it can help reduce cyberbullying and the spread of false information.

II. No, it infringes on freedom of speech and can lead to censorship.

- A. Only Argument I follows.
- B. Only Argument II follows.
- C. Both Arguments I and II follow.
- D. Neither Argument I nor Argument II follows.

Q33. Select the most appropriate ANTONYM of the underlined word.

We lived a very frugal life during our childhood.

- A. Reckless
- B. Weary
- C. Severe
- D. Extravagant

Q34. Select the option that can be used as a one-word substitute for the given group of words. Which cannot be read.

- A. Illiterate
- B. Inaudible
- C. Invisible
- D. Illegible

Q35. Select the INCORRECTLY spelt word.

- A. Preference
- B. Preservation
- C. Preponderance
- D. Perseverance

Q36. Select the most appropriate ANTONYM of the underlined word to fill in the blank.

While most friends persuaded him to choose the career, there were a few who _____ him from doing so.

- A. evaded
- B. bombarded
- C. dissuaded
- D. situated

Q37. A train covers a distance of 200 km with a speed of 10 km/h. What time is taken by the train to cover this distance?

- A. 20 hours.
- B. 30 hours.
- C. 40 hours.
- D. 10 hours.

Q38. A bike crosses a bridge with a speed of 108 km/h. What will be the length of the bridge if the bike takes 8 minutes to cross the bridge?

- A. 1400m
- B. 1382 m
- C. 14400m
- D. 12000m

Q39. A man can row with a speed of 6 km/h in still water. What will be his speed with the stream, if the speed of the stream is 2 km/h?

- A. 8 km/h
- B. 10 km/h
- C. 6 km/h
- D. 2 km/h

Q40. If A, B, C, and D can complete a piece of work in 10, 15, 20 and 25 days respectively. find in how many days they will complete the work working together?

- A. $300/77$ days.
- B. $200/77$ days.
- C. $100/77$ days.
- D. $500/77$ days.

Q41. Tap A takes 4 hrs to fill a tank. Tap B takes 6 hrs to fill the same tank. If both the taps are opened simultaneously, by the time the tank was full, what fraction of the tank was filled by tap A?

- A. $2/5$ part.
- B. $3/5$ part.
- C. $4/5$ part.
- D. $1/5$ part.

Q42. Which among the following will be a negative ion?

- A. If it has more electron than protons
- B. If it has more electrons than neutrons
- C. If it has more protons than electrons
- D. If it has more protons than neutrons

Q43. Which of the following is not a vector quantity?

- A. Acceleration
- B. Electric current
- C. Force
- D. Velocity

Q44. Money bill can be introduced first in which house of Parliament?

- A. Only in Lok Sabha
- B. Only in Rajya Sabha
- C. Both in Lok Sabha and Rajya Sabha
- D. Either in Lok Sabha or in Rajya Sabha

Q45. Kilowatt hour (kWh) represents the unit of which of the following?

- A. Electrical Power
- B. Force
- C. Momentum
- D. Energy

Q46. With which of the following country, India has a land dispute near Tawang?

- A. Pakistan
- B. China
- C. Afghanistan
- D. Bangladesh

Q47. Geothermal energy is maximum utilised in

- A. Iceland
- B. New Zealand
- C. Russia
- D. Japan

Q48. Select the INCORRECTLY spelt word.

- A. Anxiety
- B. Preparation
- C. Voluntary
- D. Stetionery

Q49. Select the most appropriate meaning of the given idiom.

Out of the blue

- A. Undoubtedly
- B. Unexpectedly
- C. Unbelievably
- D. Unconcerned

Q50. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The doctor came / after the patient / had / pass away.

- A. The doctor came
- B. pass away
- C. after the patient
- D. had

Q51. Select the most appropriate option to fill in the blank.

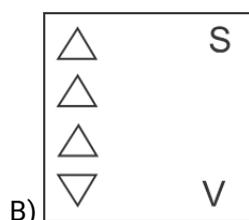
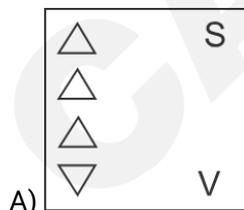
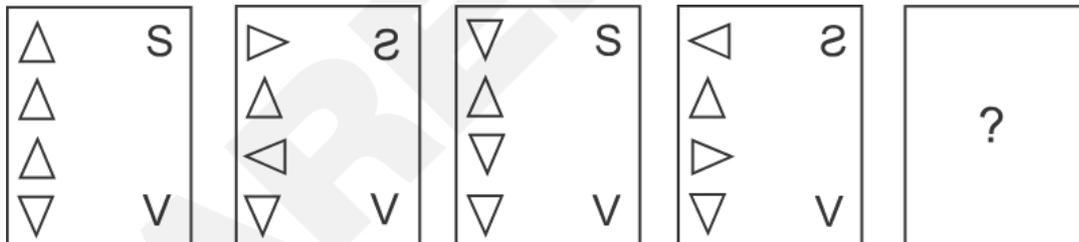
We _____ off old clothes and bought new ones for Diwali.

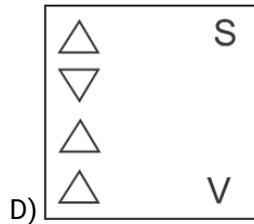
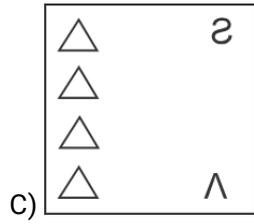
- A. cost
- B. coast
- C. caste
- D. cast

Q52. Direction: In a certain code language, FRAME is written as IUDPH. How is ROYAL written in that code language?

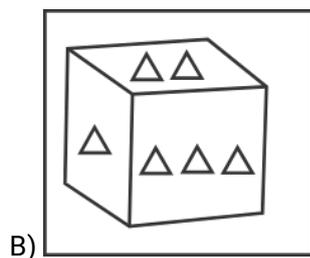
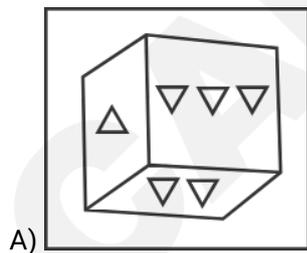
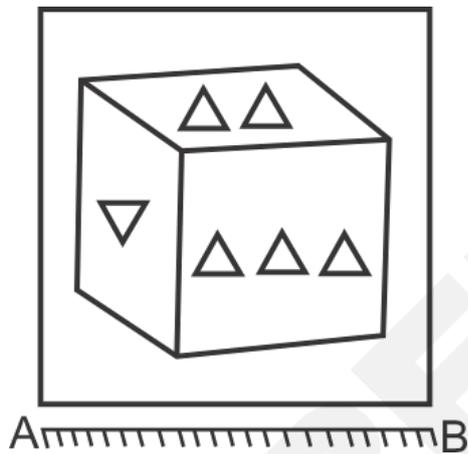
- A. XVTGM
- B. MRDXO
- C. XIDPH
- D. URBDO

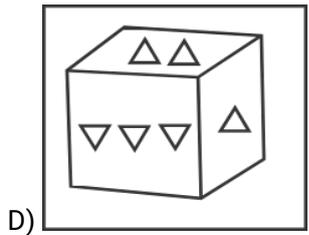
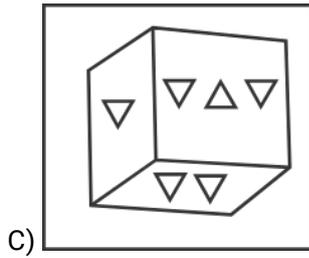
Q53. Direction: In the following question, select the figure that can be placed at the sign of the question mark (?) from the given alternatives.



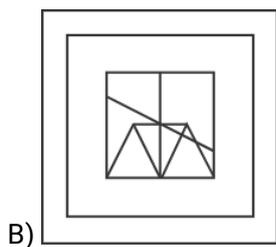
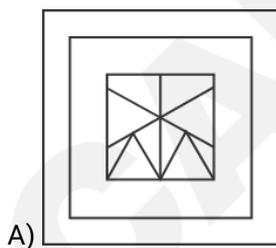


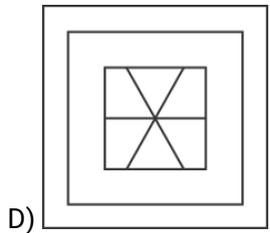
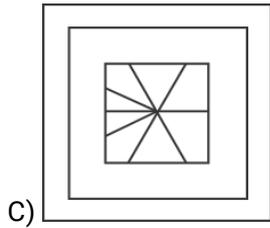
Q54. Direction: If a mirror is placed on line AB, then which of the answer figures is the right image of the given figure?



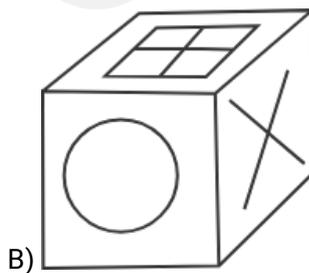
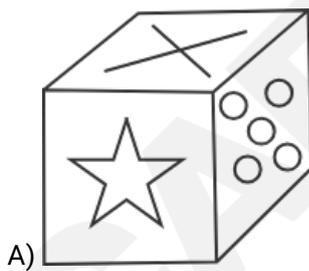
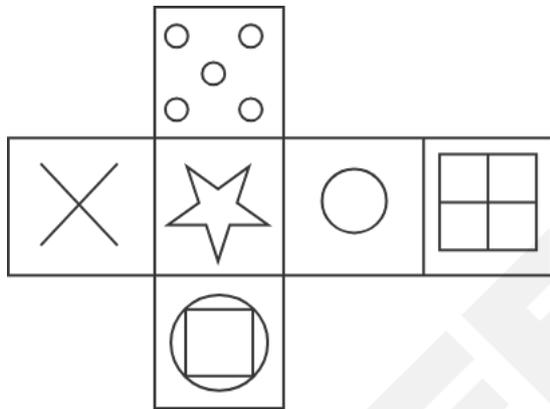


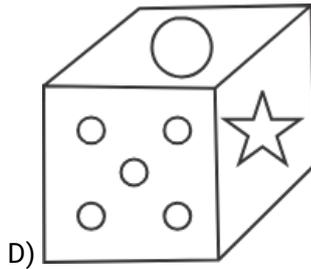
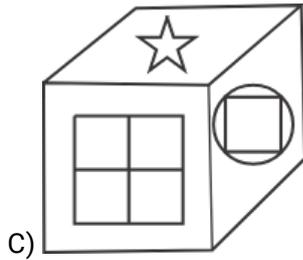
Q55. Direction: From the given answer figures, select the one in which the question figure is hidden/embedded.



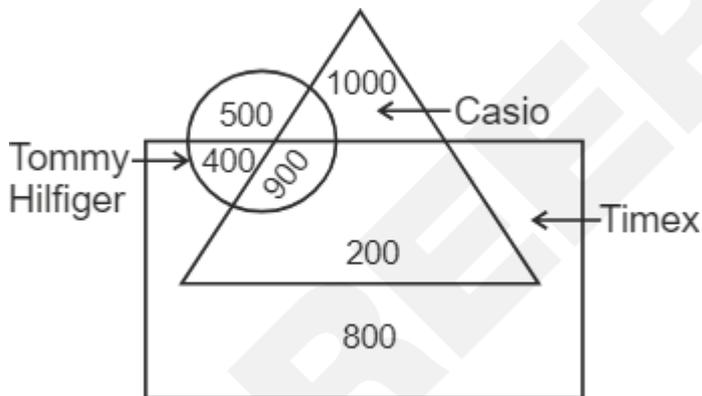


Q56. Direction: Which of the following cubes in the answer figure cannot be made based on the unfolded cube in the question figure?





Q57. Direction: Study the information carefully and answer the question based on it.



How many people like only Casio and Timex?

- A. 1000
- B. 1200
- C. 800
- D. 200

Q58. Walking at $\frac{5}{6}$ of its usual speed, a train is 10 minutes too late. Find the usual time to cover the journey?

- A. 50 min.
- B. 10 min.
- C. 20 min.
- D. 30 min.

Q59. A man travelled from the village to post office at the rate of 25 kmph and walked back at the rate of 4 kmph. If the whole journey took 5 hrs and 48 min. find the distance of post office from village?

- A. 20 km.
- B. 10 km.
- C. 30 km.
- D. 40 km.

Q60. Shantanu can row upstream at 10 km/h and downstream at 18 km/h. Find the man's rate in still water and the rate of the current.

- A. 4 km/h
- B. 8 km/h
- C. 6 km/h
- D. 2 km/h

Q61. A and B together can do a piece of work in 24 days and A alone can complete the work in 36 days. How long will B alone take to complete the work?

- A. 72 days.
- B. 62 days.
- C. 52 days.
- D. 42 days.

Q62. Who was the chairman of the drafting committee of Indian constitution?

- A. Lord Mountbatten
- B. Dr. Rajendra Prasad
- C. Dr. B.R. Ambedkar
- D. Pandit Jawaharlal Nehru

Q63. January 26 was selected as the date for the inauguration of the constitution because _____.

- A. it was considered to be an auspicious day
- B. on that day the Quit India movement was started in 1942
- C. the congress had observed it as the Independence Day in 1930
- D. None of these

Q64. Which cell organelles is the site of photosynthesis and also contains chlorophyll ?

- A. Chloroplast
- B. Vacuole
- C. cytoplasm
- D. nucleolus

Q65. How many states are there in the Indian union?

- A. 27
- B. 28
- C. 29
- D. 30

Q66. What does the term "couture" refer to in the fashion industry?

- A. Mass-produced clothing
- B. High-end, customized, and handcrafted clothing
- C. Vintage clothing
- D. Streetwear fashion

Q67 Which fabric is known for its breathability and moisture-wicking properties, making it suitable for activewear?

- A. Silk
- B. Denim
- C. Polyester
- D. Bamboo

Q68. Direction: In the following question, two statements are given followed by two conclusions I and II. You have to consider the two statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statements.

Statements

All men are aggressive.

All children are aggressive.

Conclusions

I. Men are children

II. Children are men.

- A. Only conclusion II follows
- B. Both conclusions I and II follow
- C. Neither conclusion I nor conclusion II follows
- D. Only conclusion I follow

Q69. Assertion: The greenhouse effect contributes to global warming.

Reason: Greenhouse gases trap heat energy in the Earth's atmosphere.

- A. Both the assertion and reason are true, and the reason is a correct explanation of the assertion.
- B. Both the assertion and reason are true, but the reason is not a correct explanation of the assertion.
- C. The assertion is true, but the reason is false.
- D. The assertion is false, but the reason is true.

Q70. Assertion: Fossils are found in sedimentary rocks.

Reason: Sedimentary rocks are formed by the accumulation of sediments over time.

- A. Both the assertion and reason are true, and the reason is a correct explanation of the assertion.
- B. Both the assertion and reason are true, but the reason is not a correct explanation of the assertion.
- C. The assertion is true, but the reason is false.
- D. The assertion is false, but the reason is true.

Q71. According to the given statements, Which of the following options is correct.

Statement 1: The capital of France is Paris.

Statement 2: The capital of Germany is Berlin.

- A. Statement 1 is correct, but Statement 2 is incorrect.
- B. Statement 2 is correct, but Statement 1 is incorrect.
- C. Statement 1 is incorrect.
- D. Statement 2 is incorrect.

Q72. According to the given statements, Which of the following options is correct

Statement 1: The chemical symbol for gold is Go.

Statement 2: The chemical symbol for silver is Ag.

- A. Statement 1 is correct, but Statement 2 is incorrect.
- B. Statement 2 is correct, but Statement 1 is incorrect.
- C. Statement 1 is incorrect.
- D. Statement 2 is incorrect.

Q73. Direction: In the following question, a statement is given, followed by two arguments, I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You have to decide which of the given arguments, if any, follows from the given statement.

Statement:

"Should standardized tests be the primary criteria for college admissions?"

Arguments:

I. Yes, standardized tests provide a fair and objective way to assess students.

II. No, they can perpetuate inequality and disadvantage underprivileged students.

- A. Only Argument I follows.
- B. Only Argument II follows.
- C. Both Arguments I and II follow.
- D. Neither Argument I nor Argument II follows.

Q74. Select the correct sentence in active voice from the following options.

- A. The neighbours have called the police.
- B. The police are being called by the neighbours.
- C. The Police said to me, I will call the neighbours.
- D. The Police said to me, &q

Q75. Select the most appropriate synonym of the given word.

Connote

- A. Comment
- B. Criticise
- C. Care
- D. Convey

Q76. Select the most appropriate homonym to fill in the blank.

The children enjoyed the _ very much.

- A. feer
- B. fear
- C. fere
- D. fair

Q77. Select the most appropriate idiom or phrase to fill in the blank in the given sentence.

He is rich and famous and expects everyone to _ on him.

- A. tap dance like mad
- B. dead duck
- C. give a song and dance
- D. dance attendance

Q78. A bike crosses a bridge with a speed of 108 km/h. What will be the length of the bridge if the bike takes 8 minutes to cross the bridge?

- A. 14400 m
- B. 12400 m
- C. 13400 m
- D. 14000 m

Q79. A man can row 8 km/hr in still water. When the river is running at 2 km/hr, it takes him 3 hrs 12 min to row to a place and back. How far is the place?

- A. 6 km.
- B. 8 km.
- C. 3 km
- D. 12 km

Q80. A and B together complete a work in 36 days, B and C together completes in 48 days, and A and C completes in 72 days. How long would each take to do the job?

- A. 388 days.
- B. 588 days.
- C. 288 days.
- D. 200 days.

Q81. Three pipes A, B and C together can fill an empty tank in 4 hours. After 1 hr, C is closed and the tank is full in 6 more hrs. find the time in which C alone can fill the empty tank?

- A. 8 hrs.
- B. 10 hrs.
- C. 9 hrs.
- D. 6 hrs.

Q82. Where was Mahatma Gandhi born?

- A. Madhya Pradesh
- B. Assam
- C. Rajasthan
- D. Gujarat

Q83. Who decides about the size and membership of the Council of Ministers?

- A. Chairman of the Rajya Sabha
- B. President
- C. Prime Minister
- D. Lok Sabha

Q84. The crop development programme of the government of India covers which of the following groups of commercial crops?

- A. Cotton, Jute and Sugarcane
- B. Tea ,coffee and spices
- C. Jute ,Tea and coffee
- D. Tea ,cotton and rubber

Q85. Synapse gap is present between which of the following?

- A. Two neurons
- B. Brain and spinal chord
- C. two kidneys
- D. None of these

Q86. What is the full form of DNA?

- A. Diribo nuclei acid
- B. Di nucleic acid
- C. Dual nitrogen acid
- D. Deoxyribonucleic acid

Q87. Direction: In the following question, two statements are given, followed by two conclusions, I and II. You have to consider the two statements to be true, even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statements.

Statements:

A graduate is a man.

This thief is a graduate.

Conclusions:

I. This thief is a man.

II. Some men are thieves.

- A. Only conclusion I follows
- B. Only conclusion II follows
- C. Neither conclusion I nor conclusion II follows
- D. Both conclusion I and conclusion II follow

Q88. Direction: In the following question, two statements are given followed by two conclusions I and II. You have to consider the two statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statements.

Statements:

1. All men are prisoners.

2. No prisoners are educated.

Conclusions:

I. All prisoners are educated.

II. No men are educated.

- A. Only conclusion I follows
- B. Only conclusion II follows
- C. Neither I nor II follows
- D. Both conclusion I and conclusion II follows

Q89. Assertion: A mirage is an optical illusion that makes distant objects appear closer and inverted.

Reason: Mirages are caused by the bending of light due to temperature gradients in the atmosphere.

- A. Both the assertion and reason are true, and the reason is a correct explanation of the assertion.
- B. Both the assertion and reason are true, but the reason is not a correct explanation of the assertion.
- C. The assertion is true, but the reason is false.
- D. The assertion is false, but the reason is true.

Q90. Assertion: A metal rod expands when heated.

Reason: When heated, the kinetic energy of the metal atoms increases, causing them to vibrate more and push each other apart.

- A. Both the assertion and reason are true, and the reason is a correct explanation of the assertion.
- B. Both the assertion and reason are true, but the reason is not a correct explanation of the assertion.

- C. The assertion is true, but the reason is false.
- D. The assertion is false, but the reason is true.

Q91. According to the given statements, Which of the following options is correct.

Statement 1: The Earth orbits the Sun.

Statement 2: The Sun orbits the Earth.

- A. Statement 1 is correct, but Statement 2 is incorrect.
- B. Statement 2 is correct, but Statement 1 is incorrect.
- C. Statement 1 is incorrect.
- D. Statement 2 is incorrect.

Q92. Parts of the following sentence have been given as options. Select the option that contains an error.

My mother is a honest and well-known woman in the society.

- A. in the society
- B. My mother
- C. is a honest
- D. and well known woman

Q93. Sentences of a paragraph are given below. While the first and the last sentences (S1 and S6) are in the correct order the sentences in between are jumbled up. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

S1. A moment comes

A. long suppressed

B. and when the soul of a nation

C. which comes but rarely in history

D. when we step out from the old to the new when an age ends

S6. finds utterance.

- A. CBAD
- B. CDBA
- C. ABCD
- D. DCBA

Q94. Identify the sentence that contains no spelling errors.

- A. Manisha got overwhelmed by the tremendus offer by a company to work in collaboration with internet personel.
- B. Manisha got overwhelmed by the tremendous offer by a company to work in collaboration with internet personnel.
- C. Manisha got overwellmed by the tremendous offer by a company to work in collaborasion with internet personnel.
- D. Manisha got overwhelmed by the tremendus offer by a company to work in collaborat

Q95. Select the most appropriate meaning of the given idiom.

In a soup

- A. Extremely short of money
- B. To exhibit cowardice
- C. To get nothing
- D. In trouble

Q96. Select the most appropriate ANTONYM of the underlined word.
They praised her for her bravery.

- A. Acclaimed
- B. Rebuked
- C. Defended
- D. Assaulted

Q97. To cover a certain distance at a speed of 60 km/h, a train takes 15 hours. If it covers the same distance in 12 hours, what will its speed be?

- A. 9
- B. 10
- C. 5
- D. 12

Q98. A can do a work in 18 days. When he had work for 2 days, B joined him. If they complete the remaining work in 4 more days . In how many days B alone finish the whole work?

- A. 6 days.
- B. 5 days.
- C. 10 days.
- D. 8 days.

Q99. A pump can fill a tank with water in 2 hours. Because of a leak, it took $2\frac{2}{3}$ hours to fill the tank. The leak can drain all the water of the tank in:

- A. 4 hours
- B. 6 hours
- C. 2 hours
- D. 8 hours

Q100. There are two mixtures of honey and water, the quantity of honey in them being 25% and 75 % of the mixture. If 2 gallons of the first are mixed with three gallons of the second, what will be the ratio of honey to water in the new mixture?

- A. 11 : 2
- B. 11 : 9
- C. 9 : 11
- D. 2 : 11

» Answer Key

1	2	3	4	5	6	7	8	9	10
A	A	C	B	B	A	A	C	A	A
11	12	13	14	15	16	17	18	19	20
A	C	C	D	D	D	B	A	D	B
21	22	23	24	25	26	27	28	29	30
C	D	C	C	D	B	D	D	A	A
31	32	33	34	35	36	37	38	39	40
A	C	D	D	A	C	A	A	A	A
41	42	43	44	45	46	47	48	49	50
B	B	B	A	D	B	A	D	B	B
51	52	53	54	55	56	57	58	59	60
D	D	B	A	B	A	D	A	A	A
61	62	63	64	65	66	67	68	69	70
A	C	C	A	B	B	D	C	A	A
71	72	73	74	75	76	77	78	79	80
A	A	C	A	D	D	D	D	D	C
81	82	83	84	85	86	87	88	89	90
A	D	C	A	A	D	D	B	A	A
91	92	93	94	95	96	97	98	99	100
A	C	B	B	D	B	A	A	D	B

» Solutions

1-A

KYC stands for "Know Your Customer," which is a process for verifying the identity of customers to prevent fraud and money laundering.

2-A

Ahmedabad is situated on the banks of river Sabarmati. The Sabarmati River is a significant west-flowing river in India that rises in the Aravalli Mountains in the Udaipur District and joins the Gulf of Khambhat in the Arabian Sea. The principal tributaries include the Watrak, Wakal, Hathmati, Harnav, and Sei rivers.

3-C

- Let's look at the **meaning** of the given idiom.
- The phrase "**cut a sorry figure**" means "to appear in a way or make an unlikeable impression that causes oneself to be regarded unfavourably by others."

Hence, the correct answer is "**to create a poor impression.**"

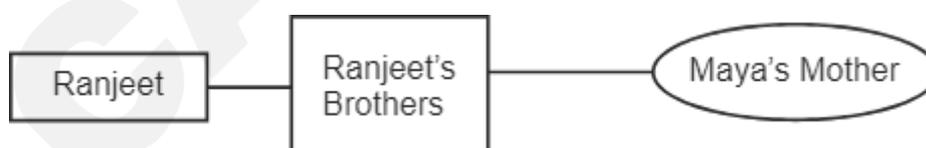
4-B

- The given sentence is grammatically incorrect.
- Here, '**made much mischief**' should be used instead of '**did many mischiefs**'.
- According to grammar, "**much**" is used with **uncountable nouns**, and '**mischief is an uncountable noun**'.
- In the given context, '**make mischief is a phrase**. It means 'to intentionally say or do something that causes other people to be upset or annoyed with each other'.

Thus, the correct answer is "**made much mischiefs.**"

5-B

As per the instructions given, the family tree will be –



Now, we see that Maya's mother is the sister of Ranjeet's brother. So, Ranjeet's brother is the maternal uncle of Maya.

Hence, the second option is correct.

6 - A

Following the instructions of the question, the family tree will be –



Note: + denotes male and – denotes female.

So, from the above family tree, it is clear that Byomkesh, Abhishek, and Jackie are siblings and Ella is the wife of Vimal. Hence, the first option is correct.

7-A

Given:

3	10	6	186
9	5	3	138
5	7	1	36
3	2	5	?

The pattern can be observed running horizontally along the rows.

Row 1: $(3 \times 10) + 1 = 31 \rightarrow 31 \times 6 = 186$

Row 2: $(9 \times 5) + 1 = 46 \rightarrow 46 \times 3 = 138$

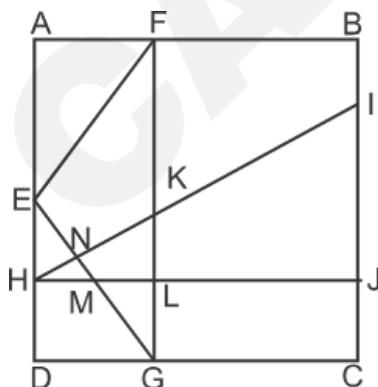
Row 3: $(5 \times 7) + 1 = 36 \rightarrow 36 \times 1 = 36$

Row 4: $(3 \times 2) + 1 = 7 \rightarrow 7 \times 5 = 35$

So, 35 is the missing number. Hence, the first option is correct.

8-C

The given figure can be labeled as shown below –



Now, in the above figure, there are a total of 10 triangles. They are AFE, EDG, EFG, EHN, HNM, EHM, HIJ, GML, GNK, HKL.

Hence, the third option is correct.

9-A

Method 1 : work done by A in 1 day = $1/10$

Work done by B in 1 day = $1/15$

Work done by A and B together in 1 day = $1/10 + 1/15 = 1/6$

They can complete it in 6 days.

Method 2 : using formula A and B can do the work in

$10 \times 15 / 10 + 15 = 150 / 25 = 6$ days.

Method 3 : calculate LCM (10,15) = 30

The answer in how days they will complete the work together will be

$30 / (30/10 + 30/15) = 6$ days.

By the method of LCM the problems in which there are more than 2 persons working can also be solved easily. example 2 will make it very clear

10- A

= Perimeter of the cross section \times height

= $24\text{cm} \times 12\text{cm}$

= 288cm^2

11-A

We know that

$a \times \text{km/h} = a \times 5/18 \text{ m/s}$

$72 \text{ km/h} = 72 \times 5/18 \text{ m/s} = 20 \text{ m/s}$

12-A

We know that

$a \text{ m/s} = a \times 18/5 \text{ km/h}$

$25 \text{ m/s} = 25 \times 18/5 \text{ km/h} = 90 \text{ km/h}$

13-C

The SI unit of electric charge is the Coulomb (C).

14-D

Force is not a scalar quantity; it is a vector.

15-D

- The given sentence is in the active voice. We have to change the sentence into **passive form**.
- The given sentence is written in '**present continuous tense**.'
- The structure of these kinds of sentences is:
 - ◇ **Active Voice: Subject + is/am/are + V1 + ing + Object.**
 - ◇ **Passive Voice: Object + is/am/are + being + V3 + by + Subject**
- The subject of the given sentence is '**India**' and the **object** of the given sentence is '**handicrafts**.'
- So, in the passive voice, the position of 'subject' and 'object' will be interchanged
- Also here, "**is exporting**" will be changed to 'are being exported.' As 'Handicrafts' is plural in number, we have to use 'are' with it.

Therefore, the correct answer is "**handicrafts are being exported to several countries by India.**"

16-D

- The error lies in the part "are my friend's son."
- The given sentence talks about a single person, "**the most talented**" among three other boys, who is my friend's son.
- As per the rule of grammar, we have to apply "be verb" according to the single person.
- So, we need to use "**is**" instead of "**are**" to make the sentence grammatically correct

Hence, the correct answer is: "**are my friend's son.**"

17-B

- **Sentence C** will be the first sentence because it is an introductory sentence that tells us about the temple that emerged when Nayan walked across the forest.
- **Sentence D** will be the next sentence because it tells us about the temple and also tells us that it was made up of grey stone walls.
- **Sentence A** will be the next sentence because it further tells us about the physical appearance of the temple.
- Lastly, **sentence B** will be used.

Thus, the correct sequence is "**CDAB.**"

18-A

- Replace the be verb '**was**' with '**were**' to make the sentence correct.
- "**If I were**" is used when the subject of the sentence is referring to a **hypothetical or imaginary situation**
- "**I were**" is called the **subjunctive mood** and is used when you are talking about something that isn't true or when you wish something was true.
- "**If I was**" is used to refer to a situation that actually happened in the past.

Therefore, the correct answer is, "**If I were you, I would not lose temper in this situation.**"

19-D

Given:

MUSTARD \Rightarrow 132119201184

PROFUSE \Rightarrow ?

The place value of MUSTARD is –

M	U	S	T	A	R	D
13	21	19	20	1	18	4

Thus, MUSTARD is coded as 132119201184.

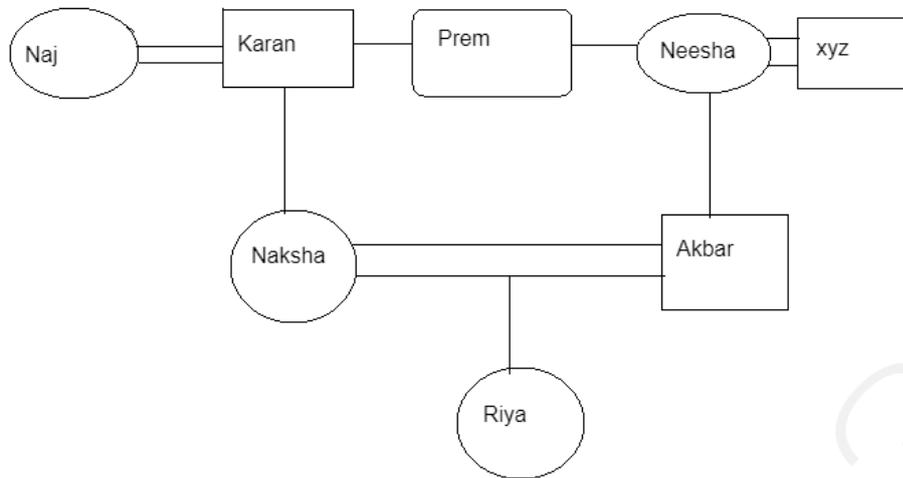
Similarly, follow the same pattern for PROFUSE –

P	R	O	F	U	S	E
16	18	15	6	21	19	5

Thus, PROFUSE will be written as 161815621195 in the code language. Hence, the fourth option is correct.

20-B

According to the above family tree, the relation between Naksha and Neesha can be either niece and Aunt or Daughter-in-law and mother-in-law.



From the given options, Niece and Aunt is the correct answer. Hence, the second option is correct.

21-C

The SI unit of electric charge is the Coulomb (C).

22-D

Force is not a scalar quantity; it is a vector.

23-C

Credit unions primarily offer savings and checking accounts to their members.

24-C

Basel III aims to enhance the stability of the banking system by setting capital and liquidity requirements for banks

25-D

Constructed in 1962, the Govind Ballabh Pant Sagar Dam, also recognized as the **Rihand Dam**, stands as a concrete gravity dam situated on the Rihand River. This impressive structure is found in the **Sonbhadra District of Uttar Pradesh**, and its reservoir area straddles the border of Madhya Pradesh and Uttar Pradesh. Rihand River serves as a tributary to the Son River.

26-B

Agronomy is the science of growing crops and plants that provide us with food, fiber, oil, medicinal resources, and other essentials for human well-being. It covers everything from managing soil and breeding plants to dealing with pests and understanding plant growth. Agronomists aim to maximize crop yields while keeping in mind sustainability, environmental concerns, and economic effectiveness.

27-D

Given:

Statements:

- I. We are going back again to our ancestors and finding out the importance of Yoga and Pranayam.
- II. People in the West have already opted it. It does not require any external equipment but only body and soul.

Conclusions:

- I. Ancient science is the treasure of many cures and natural remedies for various diseases.
- II. Technology has overshadowed these ancient sources and introduced new concepts of fitness called gym.

Based on the given statements,

Conclusion I logically follow from the given statements. Statement I suggests that people are exploring the importance of Yoga and Pranayam, which implies that ancient practices like Yoga and Pranayam offer remedies for various diseases.

Conclusion II doesn't directly follow from the statements. While the statements discuss the adoption of Yoga and Pranayam, they don't explicitly mention that technology has introduced gym-based fitness concepts.

Thus, only Conclusion I logically follows from the given statements. Hence, the fourth option is correct.

28-D

Given:

Statements:

- I. Children play in the playground.
- II. It gives them a different approach to problem-solving and decision-making.

Given Conclusions:

- I. Playing outdoors is very necessary for the overall development of a child.
- II. There should be a balance between playing and studying for a child.

Based on the given statements,

Conclusion I logically follow from the statements. The fact that children play in the playground suggests that playing outdoors is essential for a child's overall development.

Conclusion II doesn't directly follow from the statements. While the benefits of outdoor play are implied, the statements don't explicitly address the need for a balance between playing and studying.

So, the correct answer is only Conclusion I logically follows from the given statements. Hence, the fourth option is correct.

29-A

The sky appears blue during the day because of Rayleigh scattering, which scatters shorter wavelengths of light, like blue and violet, more than longer wavelengths, making the blue light dominant.

30-A

The ozone layer absorbs and dissipates harmful UV radiation, which is a crucial protective mechanism for life on Earth.

31-A

Statement 1 accurately describes photosynthesis, where plants convert sunlight into energy.

Statement 2 is incorrect because respiration in plants involves the conversion of oxygen into carbon dioxide, not the other way around.

32-C

Argument I emphasizes the benefits of content monitoring, while Argument II raises concerns about potential freedom of speech violations.

33-D

The most appropriate antonym for the underlined word "frugal" is "**extravagant.**"

"**Frugal**" means to be economical, thrifty, or to live a simple and cost-effective life. In contrast, "**extravagant**" refers to spending or living in a lavish, wasteful, or excessive manner.

The meanings of the other options are as follows:

- **Reckless** means rash or impetuous.
- **Weary** means showing extreme tiredness.
- **Severe** means strict or harsh.

34-D

The one-word substitute for the group of words "Which cannot be read" is "**illegible.**"

Explanation: "Illegible" is an adjective that describes something that is difficult or impossible to read due to poor handwriting, printing, or other factors.

35-A

The incorrectly spelt word is "Prefferance." The correct spelling is "**Preference.**"

Explanation: The word "preference" means a greater liking for one thing over another or a choice made from a range of options.

36-C

The most appropriate antonym for the underlined word in the blank is "**dissuaded.**"

Explanation: In the context of the sentence, "persuaded" means that most friends encouraged or convinced him to choose the career. Hence, "dissuaded" is the word that provides the opposite meaning, as it means to discourage or persuade someone not to do something.

"Evaded" means to escape or avoid something skillfully or cleverly.

"Bombarded" refers to being hit with a large amount of something, often rapidly and from various directions.

"Situated" indicates where something is located or positioned within a particular place or context. Therefore, the correct sentence is: "While most friends persuaded him to choose the career, there were a few who **dissuaded** him from doing so."

37-A

$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$

Where speed = 10 km/h and distance = 200 km

$$10 = \frac{200}{\text{Time}}$$

Required time = 20 hours.

38-A

Here, length of the bridge = Distance travelled by bike in 8 minutes
= Speed X Time

Given that speed = 108 km/h = 108 X 518 m/s = 30 m/s

Time = 8 minutes = $8 \times 60 = 480$ seconds
 Length of the bridge = $30 \times 480 = 14400$ m

39-A

Given that

Speed of man = $x = 6$ km/h

Speed of stream = $y = 2$ km/h

Speed downstream = $(x + y) = 6 + 2 = 8$ km/h

40-A

We first find LCM (10, 15, 20, 25) i.e. =300

Now divide this lcm with no. of days in which they complete the work individually

$300/10 = 30$, $300/15 = 20$, $300/20 = 15$ and $300/25 = 12$

Hence the answer will be $300/(30+20+15+12) = 300/77$ days.

41-B

First find the part they together will fill in 1 hr i.e. $1/4 + 1/6 = 5/12$

Hence total hrs will be $12/5$ in which they will fill the tank.

Now tap A fill the tank $1/4$ in 1 hr and hence in $12/5$ hr tap A will fill $12/5 \times 1/4$ part = $3/5$ part

So 60% part will be filled by tap A and remaining 40% will be filled by tap B.

Method 2: time taken to fill tank is inversely proportional to work done i.e. filling of tank in case of pipes and so ratio of time taken by A and B are 2:3 therefore efficiency of work will be in ratio 3:2 and hence tap A will fill $3/(2+3) = 3/5$ part.

42. B

When an atom or molecule receives one or more electrons, negative ions, also known as anions, develop. This is referred to as electron gain. Because of their electron configuration and position in the periodic table, some elements have a higher tendency to attract electrons. Elements having nearly full or half-filled valence electron shells may have a high electron affinity. When these atoms come into contact with electrons, they can easily attract them, resulting in a more stable electron configuration. When atoms gain electrons to obtain a stable electron configuration comparable to that of a noble gas, negative ions are frequently generated.

43. B

Electric current does not exist as a vector quantity. It is a scalar quantity, which means it simply has a magnitude and no direction. The three other quantities, velocity, force, and acceleration, are all vector quantities.

44. A

The Money Bill (Article 110) addresses with financial issues such as taxation, governmental expenditure, and so on. A money bill needs to be presented in the Lok Sabha. Solely on the President's advice may a Money Bill be brought forward. Only a Minister can put forward a Money Bill in Parliament. Whenever a Money Bill is sent to Rajya Sabha, it must be certified by the Lok Sabha Speaker. Only the Rajya Sabha has the authority to hold the bill for a maximum duration of 14 days.

45. D

The kilowatt-hour (kWh) is the unit of electrical energy. It represents the amount of energy consumed by a device or system with a power rating of one kilowatt (kW) over the course of one

hour. This unit is commonly used on electricity bills to measure the amount of energy consumed by households and businesses.

46. B

India shares its largest land boundary with Bangladesh and then China. Tawang is a region in the north-eastern state Arunachal Pradesh near LAC. China claims that this region belongs to them. In recent past, Chinese army intruded in this region and clashes take place between Indian army and Chinese army. Indian army gave a befitting reply to the Chinese army.

47. A

Geothermal energy is maximum utilised in Iceland and the maximum percentage of power supply is obtained by geothermal energy in Iceland during winters. Geothermal energy is the heat energy generated within the earth and it is produced mainly by radioactive decay of uranium, thorium etc. in the earth's crust. It is considered as a renewable source of energy.

48-D

The fourth option is the incorrectly spelt i.e. "**stetionary**."

The correct spelling is "**stationary**," which means not moving or not intended to be moved.

The meanings of other options are as follows:

- **Anxiety:** A state of uneasiness or apprehension about future uncertainties
- **Preparation:** The action or process of making ready or being made ready for use or consideration
- **Voluntary:** Done, given, or acting of one's own free will.

49-B

The correct choice is the **second option, "Unexpectedly"**.

The idiom "out of the blue" means "unexpectedly" or "suddenly," and it is used to describe something that happens without warning or preparation. When something happens "out of the blue," it means it comes as a surprise or shock, much like something appearing suddenly from a clear, blue sky. There is no prior indication or warning.

The meanings of the other options are as follows:

- **Undoubtedly** means without any doubt.
- **Unbelievably** means in a manner that is hard to believe.
- **Unconcerned** means without any concern.

50-B

The segment that contains a grammatical error is the **second option, "pass away."**

The correct phrase should be "**had passed away**," not "had pass away." "Had passed" is the past perfect tense form which is the correct way to express that the patient died before the arrival of the doctor. The past perfect tense is used to denote the action that happened earlier than the other action in the past. "Pass away" is a phrasal verb that means "to die."

Therefore, the correct sentence is, "The doctor came after the patient **had passed away**."

51-D

The correct option to fill in the blank is the **fourth option, "cast"**.

The word "**cast**" in this context means getting rid of or disposing of old clothes. "**Cast off**" is the correct phrasal verb to use when indicating the act of discarding something.

Therefore, the correct sentence is, "We **cast** off old clothes and bought new ones for Diwali."

52-D

Given:

FRAME is written as IUDPH.

Like, $F + 3 = I$; $R + 3 = U$; $A + 3 = D$; $M + 3 = P$; $E + 3 = H$

Similarly, ROYAL is written as –

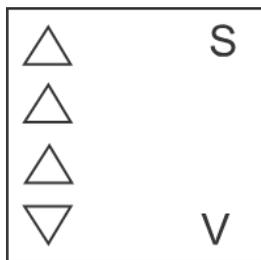
$R + 3 = U$; $O + 3 = R$; $Y + 3 = B$; $A + 3 = D$; $L + 3 = O$

So, ROYAL is written as URBDO in that code language. Hence, the fourth option is correct.

53-B

Here in the given series of images, the first triangle is rotated by 90 degree clockwise and the third triangle is rotated by 90 degree anti-clockwise, also the letter is flipped left and right alternately.

The following figure will complete the pattern –



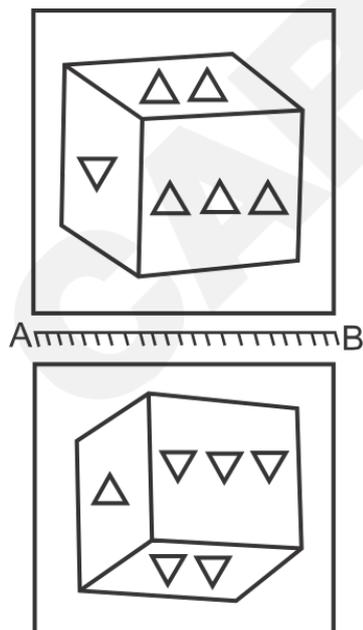
Hence, the second option is correct.

54-A

As per the mirror image properties, closer things appear close to the mirror in the reflection.

Here, according to the information provided, the mirror is placed at the bottom of the figure (on Line AB). So, the top of the reflected image will appear as the bottom, and the bottom will appear as the top. However, the left and right sides of the reflected image will remain the same.

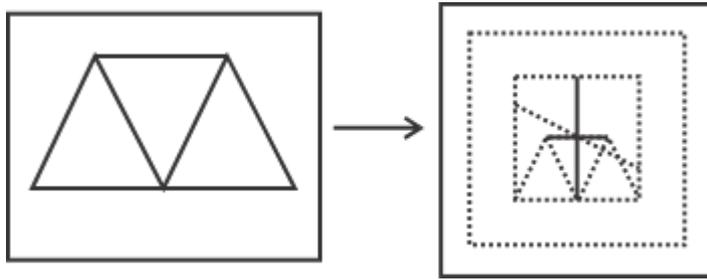
So, the mirror image will be as follows –



Hence, the first option is correct.

55-B

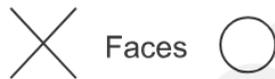
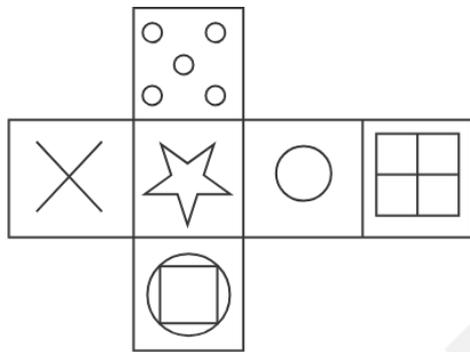
The given question figure is embedded in the second answer figure.



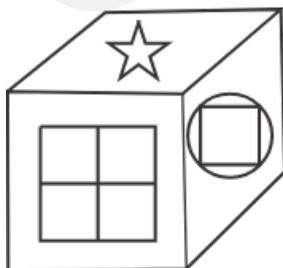
Hence, the second option is correct.

56-A

The opposite faces of the cube are –



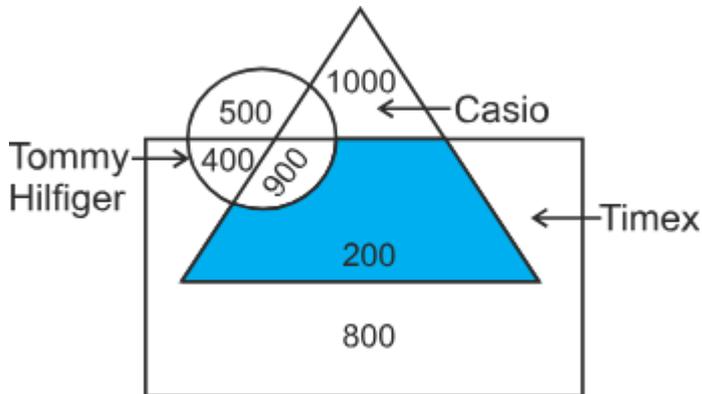
So, this cube cannot be formed.



Hence, the first option is correct.

57-D

In the below given figure, the shaded part is the overlapping region between Casio and Timex which does not include Tommy Hilfiger.



So, the number of people who like only Casio and Timex is 200. Hence, the fourth option is correct.

58- A

New speed = $\frac{5}{6}$ of the usual speed

New time taken = $\frac{6}{5}$ of the usual time

So, $\frac{6}{5}$ of usual time – usual time = 10 min.

Usual time/6 = 10 min

Usual time = 50 min.

59-A

here we use concept of average speed i.e. $\frac{2xy}{x+y}$ in the above case x is 25 and y is 4

So av speed = $\frac{2 \times 25 \times 4}{25+4} = \frac{200}{29}$ kmph.

Total time is $5 + \frac{48}{60} = \frac{29}{5}$ hrs

Hence total distance travelled will be $\left(\frac{200}{29}\right) \times \left(\frac{29}{5}\right) = 40$ km

Required distance = $40/2 = 20$ km.

60-A

According to the formula,

$$\begin{aligned} \text{Man's rate in still water} &= \frac{1}{2} (\text{Speed downstream} + \text{Speed upstream}) \\ &= \frac{1}{2} (18 + 10) = \frac{28}{2} \\ &= 14 \text{ km/h} \end{aligned}$$

$$\begin{aligned} \text{Speed of current} &= \frac{1}{2} (\text{Speed downstream} - \text{Speed upstream}) \\ &= \frac{1}{2} (18 - 10) = \frac{8}{2} \\ &= 4 \text{ km/h} \end{aligned}$$

61-A

Work done by A alone in 1 day = $\frac{1}{36}$

Work done by both in 1 day = $\frac{1}{24}$

Hence work done by B alone in 1 day = $\frac{1}{24} - \frac{1}{36} = \frac{1}{72}$

And hence B will complete the work in 72 days.

62. C

The chairman of the drafting committee of the Indian constitution was Dr. B. R. Ambedkar. He was a prominent jurist, social reformer and one of the chief architects of the Indian Constitution. Dr. Ambedkar's contributions to the drafting process were instrumental in shaping the legal and constitutional framework of independent India.

63. C

January 26 was selected as the date for the inauguration of the Indian Constitution because it marks an important day in India's history. On this day in 1930, the Indian National Congress proclaimed the Declaration of Indian Independence (Purna Swaraj), signifying India's assertion of independence from British colonial rule. This date was chosen to symbolize India's struggle for freedom and self-governance.

64. A

A chloroplast is a type of specialized organelle found in plant and algal cells. It is a photosynthesis site where light energy is collected and turned into chemical energy via a series of intricate molecular events. Chloroplasts contain chlorophyll, the green pigment found in plants that allows them to absorb sunlight and perform the important process of photosynthesis.

65. B

In India there are 28 States and 8 Union Territories. Recently in 2019 the state of Jammu and Kashmir was bifurcated into two union territories, i.e. J&K and Ladakh. After this bifurcation India has now 28 states and 8 UTs.

66-B

The correct answer is B. "Couture" refers to high-end, customized, and handcrafted clothing, typically created by skilled artisans.

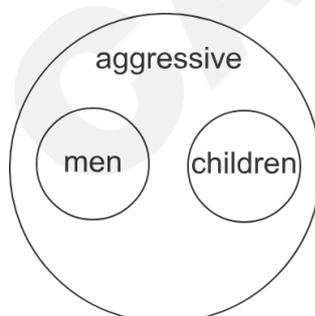
67-D

The correct answer is D. Bamboo fabric is known for its breathability and moisture-wicking properties, making it a popular choice for activewear.

68. C

Given:

The possible Venn diagram according to the statements given in the question is –



Let's analyze the conclusions –

Conclusion I: Men are children

From the Venn diagram, it is clear that there is no overlap between men and children. So, this conclusion does not follow.

Conclusion II: Children are men.

From the Venn diagram, it is clear that there is no overlap between children and men. So, this conclusion does not follow.

So, both the conclusion does not follow from the given statement. Hence, the third option is correct.

69. A

The greenhouse effect does contribute to global warming because it involves greenhouse gases trapping heat energy in the atmosphere, leading to a rise in temperatures.

70.A

Fossils are typically found in sedimentary rocks because these rocks form by the accumulation of sediments, which can bury and preserve organic remains, leading to fossilization.

71.A

Paris is indeed the capital of France, but Berlin is the capital of Germany.

72. A

The chemical symbol for gold is Au, and the chemical symbol for silver is Ag.

73. C

Argument I highlights the objectivity of standardized tests, while Argument II points out the potential negative consequences, such as perpetuating inequality.

74-A

The correct sentence in active voice is: The neighbours have called the police.

In active voice, the subject performs the action, and the structure is typically subject-verb-object.

In this case:- Subject: The neighbours, Verb: have called, Object: the police

The other options are in passive voice or have a different structure:

The police are being called by the neighbours. - Passive voice.

The Police said to me, 'I will call the neighbours.' - A reported statement.

The police have been called by the neighbours. - Passive voice.

The first option is the only one that presents a sentence in the active voice with the subject (the neighbours) performing the action (calling the police).

75-D

The correct answer is **Convey**.

Explanation:

Comment: express an opinion or provide remarks on a particular subject or situation.

Criticise: analyze and evaluate, often disapprovingly, the qualities or faults of something or someone.

Care: feel concern, interest, or attachment; provide for the well-being of oneself or others.

Convey means 'communicate, express, or make an idea, feeling, or information known to someone' which is similar to the meaning of connote. It means 'imply or suggest an idea or feeling in addition to the literal or primary meaning.'

76-D

The correct answer is **fair**.

Fear is a noun and a verb, representing an unpleasant, often strong, and distressing emotion caused by the anticipation or awareness of danger.

Fere is an archaic term that means a companion, mate, or spouse, particularly used in poetic or older English literature.

Fair is an event or gathering which consists of different forms of entertainment, games and rides. Children enjoy going to the fair.

The correct statement is The children enjoyed the **fair** very much.

77-D

The correct answer is **dance attendance**.

Dance attendance is an idiom which means to serve or attend to someone's needs, desires, or demands, often in a very attentive or obsequious manner. In this context, the rich person expects others to be at his service.

The correct statement is He is rich and famous and expects everyone to **dance attendance** on him.

78-D

Here, length of the bridge = Distance travelled by bike in 8 minutes
= Speed X Time

Given that speed = 108 km/h = 108 X 518 m/s = 30 m/s

Time = 8 minutes = 8 X 60 = 481 seconds

Length of the bridge = 30 X 480 = 14400 m

79-D

Speed downstream = (8 + 2) km/hr = 10 km/hr.

Speed upstream = (8 - 2) km/hr = 6 km/hr.

Let the required distance be x km. Then,

$$\frac{x}{10} + \frac{x}{6} = \frac{16}{5} \Rightarrow 3x + 5x = 96, \Rightarrow 8x = 96 \Rightarrow x = 12$$

Required distance = 12 km.

80-C

A+B work in 1 day = 1/36.....(1)

B+C work in 1 day = 1/48.....(2)

A+C work in 1 day = 1/72.....(3) Adding (1)+(2)+(3), we get

2 (A+B+C)'s 1 day work = 1/36+1/48+1/72 = 9/144 = 1/ 16

And hence (A+B+C)'s 1 day work = 1/ 32

Now 1 day work of A = 1/32-1/48 =1/96 therefore A completes the work in 96 days.

Now 1 day work of B = 1/32-1/72 =5/288 therefore A completes the work in 288/5 days.

Now 1 day work of C = 1/32-1/36 =1/288 therefore A completes the work in 288 days.

81-A

Tank filled in 1 hr by all three pipes = 1/4

Remaining part=3/4 which is filled by A and B together in 6 hrs

Hence complete tank will be filled by A and B =6x(4/3)=8 hrs

So we have part of tank filled by A and B in 1 hr i.e. = 1/8

Part that C alone can fill = 1/4- 1/8 =1/8. So

C alone can fill it in 8 hrs.

82-D

On October 2, 1869, Mohandas Karamchand Gandhi was born in Porbandar, Gujarat, in western India. The occasion is now known as Gandhi Jayanti. His mother's name was Putlibai, and his father's name was Karamchand Gandhi. A lawyer, politician, social activist, and author, Mohandas Karamchand Gandhi led the nationalist movement that opposed British rule in India.

83-C

The size of the Central Council of Ministers will be decided by the Prime Minister based on the demands of the time and the circumstances. On the advice of the Prime Minister, the President of India decides the tenure and composition of the Central Council of Ministers under Article 75(1). The president has discretion over who serves on the council.

84-A

Under the National Food Security Mission (NFSM-CC), the Government of India approved the Crop Development Program on Cotton, Jute, and Sugarcane to boost production and productivity. Through state governments, the Indian government is putting various crop development programs into action. As part of these programs, states and UTs offer financial assistance to farmers so they can use cutting-edge production methods and essential inputs like seeds and micronutrients to increase crop production and productivity.

85-A

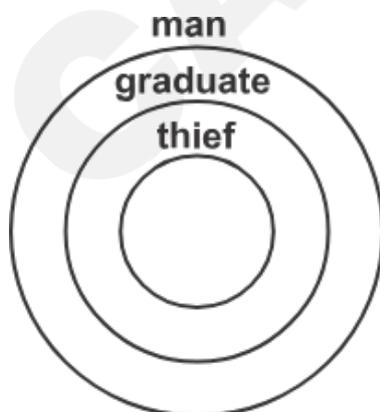
The term "synaptic gap" or "synaptic cleft" refers to the small space or gap that exists between one neuron's synaptic terminal and the dendrites or cell body of another neuron. It is a necessary component of the synapse, which is the junction where two neurons connect with one another.

86-D

DNA, or deoxyribonucleic acid, is a complex molecule that holds the genetic information required for all known living species to grow, develop, function, and reproduce. It is made up of a distinct sequence of nucleotide bases (adenine, thymine, cytosine, and guanine) that create a double helix. James Watson and Francis Crick discovered the structure of DNA in 1953. The sugar molecule in DNA is deoxyribose, a five-carbon sugar with one oxygen atom missing when compared to ribose, the sugar present in RNA (ribonucleic acid).

87-D

According to the given statements, the Venn diagram will be –



Now, let's analyse the conclusions –

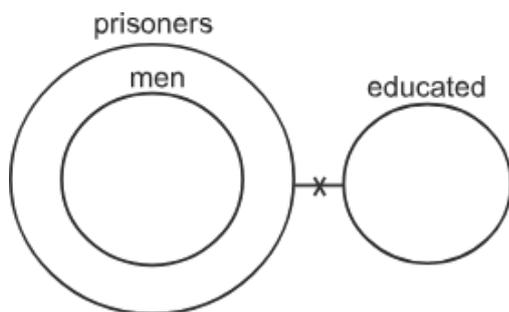
Conclusion (I): This thief is a man – From the Venn diagram, we can see that the areas which represents the man completely overlaps the area which represents the thief. So, any thief will be a man. So, this conclusion follows.

Conclusion (II): Some men are thieves – From the Venn diagram, we can see that some part of the area which represents the man is outside the area which represents thieves. This means that some men are thieves and some are not. So, this conclusion follows.

So, according to the given statements, both conclusion I and conclusion II follow. Hence, the fourth option is correct.

88-B

Based on the given statements, the Venn diagram is as follows –



Let's analyze the conclusions –

Conclusion (I): All prisoners are educated – From the Venn diagram, we can see that none of the prisoners are educated as there is no overlap. So, this conclusion does not follow.

Conclusion (II): No men are educated – From the Venn diagram, we can see that none of the prisoners are educated and the circle of men lies inside the circle of prisoners. So, from this, it can be inferred that if no prisoners are educated then no men can be educated. Thus, this conclusion follows.

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

89-A

Mirages are indeed caused by the bending of light due to temperature gradients in the atmosphere, which can create optical illusions, including making distant objects appear closer and inverted.

90-A

When a metal is heated, the increased kinetic energy of the metal atoms causes them to vibrate more vigorously, pushing each other apart and leading to thermal expansion.

91-A

In our solar system, the Earth orbits the Sun, following a heliocentric model.

92-C

The error lies in the third option. The error in this option is the incorrect use of the indefinite article "a" before "honest." The correct form should be "an honest" because "honest" begins with a vowel sound.

So the correct sentence should be: "My mother is an honest and well-known woman in the society."

93-B

The correct order of the sentences to form a meaningful and coherent paragraph is: **CDBA**

- C. which comes but rarely in history
- D. when we step out from the old to the new when an age ends
- B. and when the soul of a nation
- A. long suppressed

The paragraph is describing a significant moment in the history of a nation when a long-suppressed soul or spirit finds expression as an old age or era comes to an end giving way to the new. This moment is portrayed as a rare occurrence in history signifying a significant transformation or change in the nation's identity or direction.

94-B

The sentence that contains no spelling errors is: "**Manisha got overwhelmed by the tremendous offer by a company to work in collaboration with internet personnel.**"

- "**Tremendous**" is the correct spelling of the word meaning "**very large or great.**"
- "**Personnel**" is the correct spelling for the word referring to the staff or employees of a company or organization.
- "**Collaboration**" is the correct spelling for the act of working together or cooperating with others.
- The other options contain various spelling errors.

95-D

The idiom "**In a soup**" is used to describe a situation where someone is facing trouble or difficulty not specifically a financial issue. "**In trouble**" conveys the idea that someone is facing difficulties challenges or problems.

96-B

"**Praised**" means to express approval admiration or compliments for someone's actions qualities or achievements. "**Rebuked**" means to criticise or reprimand someone for their actions or behaviour.

- **Acclaimed:** It means to be praised or celebrated.
- **Defended:** It means to protect or support.
- **Assaulted:** It means to attack or physically harm.

97-A

Let the speed of boat in still water be a km/hour and speed of water be b km/hour.

As per first given condition:

$$\Rightarrow \frac{4}{(a-b)} + \frac{4}{(a+b)} = 1$$

$$\text{Let } \frac{1}{(a-b)} = x \text{ and } \frac{1}{(a+b)} = y$$

$$\Rightarrow 4x + 4y = 1$$

$$\Rightarrow x + y = \frac{1}{4} \text{ ----(1)}$$

As per second given condition:

$$\Rightarrow \frac{3}{(a-b)} + \frac{5}{(a+b)} = \frac{55}{60}$$

$$\Rightarrow 3x + 5y = \frac{11}{12}$$

By putting the value of y from equation (1) we get:

$$\Rightarrow 3x + 5\left(\frac{1}{4} - x\right) = \frac{11}{12}$$

$$\Rightarrow 2x = \frac{5}{4} - \frac{11}{12}$$

$$\Rightarrow x = \frac{1}{6} \Rightarrow (a-b) = 6 \text{ ---(2)}$$

By putting the value of x in equation (1)

$$\Rightarrow y = \frac{1}{4} - \frac{1}{6}$$

$$\Rightarrow y = \frac{1}{12} \Rightarrow (a+b) = 12 \text{ ---(3)}$$

From equation 2 and 3,

$$\Rightarrow 2a = 18 \Rightarrow a = 9$$

So, the speed of boat in still water is 9.

98-A

work done by A in 1 day = $1/18$

Number of days A work = $2+4=6$ therefore, total work done by A = $6 \times 1/18 = 1/3$

The remaining $2/3$ work is done by B in 4 days and hence complete work done by B will be $4 \times (3/2) = 6$ days.

99-D

Let the leak can drain all the water of the tank in y hours

Part of the tank filled by the pipe in 1 hr = $1/2$

Part of the tank emptied by the leak in 1 hr = $1/y$

$$1/2 - 1/y = 3/8 \Rightarrow 1/y = 1/2 - 3/8 = 1/8 \Rightarrow y = 8$$

i.e., the leak can drain all the water of the tank in 8 hours

100-B

H: W

1: 3



2 gallon

$1/2, 3/2$

Ratio = $1/2 + 9/4 : 3/2 + 3/4$

$11/4 : 9/4$

11:9

H: W

3: 1



3 gallon

$9/4, 3/4$

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Best Wishes

Team Careers360