CAREERS 360

PREPARATION Series

List of Competitive Exam

For

Class 9-12

Content

About This eBook

This eBook, *Competitive Exams for Class 9 to 12*, is a comprehensive guide created to help students and parents explore the various competitive exams available at the school level. It provides essential information for students from Classes 9 to 12 who aspire to build strong academic and career foundations.

Inside, you will find well-structured details on some of the most important national-level exams such as JEE, NEET, CUET, CLAT, NDA, NTSE, Olympiads, KVPY, Sainik School, RIMC, and more. Whether your goal is in engineering, medicine, law, defence services, science, or general scholarships, this eBook helps you plan early and prepare smartly.

What this eBook includes:

- Clear exam overviews
- Eligibility criteria for each exam
- Subject-wise syllabus highlights
- Exam pattern and marking schemes
- Preparation strategies and tips
- Important timelines
- Stream-specific guidance
- Direct study resource links and official websites for each exam

This guide empowers students to make informed decisions, track opportunities early, and prepare with the right tools at the right time. It also serves as a go-to manual for school mentors, educators, and parents to support students in their academic journey

The Importance of Competitive Exams in Shaping Careers.

In today's fast-paced and competitive world, competitive exams play a crucial role in shaping a student's academic and professional journey. They are not just a test of knowledge, but a platform that unlocks opportunities, builds resilience, and helps students identify their true potential.

Here's how competitive exams contribute to career development and success:

1. Gateways to Prestigious Institutions

Exams like JEE, NEET, CLAT, CUET, and NDA serve as entry points to India's top colleges and universities. Securing a good rank opens doors to institutions like IITs, AIIMS, NLU, NIFT, DU, and more, laying the foundation for a strong career.

2. Promotes Conceptual and Application-Based Learning

Unlike regular school exams, competitive exams emphasize problem-solving, critical thinking, and real-life application of concepts. This style of learning enhances deeper understanding, which is valuable in higher education and beyond.

3. Encourages Goal-Oriented Preparation

Preparing for a competitive exam instills discipline, consistency, and strategic planning—qualities essential not only for academics but also for professional life.

4. Enhances Career and Scholarship Opportunities

Many exams such as NTSE, KVPY, Olympiads, and INSPIRE offer scholarships, internships, or early career exposure. These recognitions strengthen a student's academic portfolio, useful in both Indian and international education systems.

5. Builds Confidence and a Competitive Mindset

Facing national-level exams from an early stage makes students more confident, adaptive, and prepared to tackle challenges. This mindset often continues into their careers, helping them excel in corporate, academic, or government roles.

6. Aligns Academic Strength with Career Choices

By appearing for subject-specific competitive exams (like in science, law, design, or defence), students gain clarity about their strengths and interests, enabling them to make informed career decisions early on.

Key National-Level Exams for Students in Classes 9 to 12

National-level competitive exams in India are designed to evaluate students on a large scale, providing them opportunities for further education in prestigious institutions across the country. These exams serve as gateways to various undergraduate programs, including engineering, medical, law, and other professional courses. Here, we will explore some of the most important national-level exams for students in classes 9 to 12.

Competitive Exams For Class 9 And Class 10

1. National Talent Search Examination (NTSE)

For students in Class 9, the NTSE exam begins in Stage 1, which is conducted by the respective state education boards. This is a preliminary round to qualify for the second stage of the exam, held by NCERT. The exam tests students on Mental Ability (logical reasoning and analytical thinking) and Scholastic Ability (Science and Social Science knowledge). The NTSE is one of the most prestigious exams for identifying talented students at an early stage. While the main scholarship is awarded after Stage 2 (Class 10), Stage 1 serves as the entry point for further preparation.

For Class 10 students, the NTSE Stage 2 exam is the second round of the prestigious exam. Students who successfully qualified in Stage 1 (held in Class 9) appear for this stage, which is organized by the NCERT. The Stage 2 exam also tests students on Mental Ability and Scholastic Aptitude, focusing on their general knowledge, reasoning skills, and academic proficiency in subjects like Science and Social Science. Those who clear Stage 2 are awarded scholarships, which they can use for higher education.

Features of NTSE Exam

Particulars	Details
NTSE Stages	1. Stage I – State Level Exam • Paper I: Mental Ability Test (MAT) • Paper II: Scholastic Aptitude Test (SAT) 2. Stage II – National Level Exam • Paper I: Mental Ability Test (MAT) • Paper II: Scholastic Aptitude Test (SAT)
NTSE Exam Mode	Offline (Pen-and-paper-based)

Number of Subjects	3 (Mathematics, Science, Social Science) within the SAT section + Logical/Analytical Reasoning in MAT
Exam Duration	2 hours (120 minutes) for each paper
Number of Questions	100 questions in each paper
Marking Scheme	mark for each correct answer; no negative marking+1
Paper Language	English or Hindi (candidates may choose one)

NTSE Stage I Exam Pattern

Paper	Number of Questions	Maximum Marks	Time Duration	Marking Scheme
MAT (Mental Ability Test)	100	100	120 minutes	+1 mark for each correct answer; no negative marking
SAT (Scholastic Aptitude Test)	100	100	120 minutes	+1 mark for each correct answer; no negative marking

NTSE Exam Syllabus

Section	Topics	Details
1. Mental Ability Test (MAT)	Analogies	Identify relationships between words, numbers, and figures.
	Series	Number series, letter series, and pattern completion.
	Classification	Grouping of similar items based on certain attributes.
	Coding-Decoding	Letter or number coding, symbol decoding, etc.
	Blood Relations	Relationships between family members and logical deductions.
	Direction Sense	Determine direction-related questions.
	Ranking and Time Sequence	Solving problems related to positions and ranks.
	Venn Diagrams	Problems involving classification into groups.
	Puzzles	Solving logical puzzles involving reasoning.
	Mirror and Water Images	Understanding reflections of shapes and patterns.

	Figural Series	Identifying patterns in figures.
2. Scholastic Aptitude Test (SAT)	Mathematics	Class 9 & 10 Topics:
	Number System	Natural numbers, integers, fractions, and decimals.
	Algebra	Linear equations, quadratic equations, polynomials, and factorization.
	Geometry	Lines, angles, circles, triangles, surface areas, and volumes.
	Mensuration	Areas and volumes of different geometric shapes.
	Trigonometry	Trigonometric ratios, heights, and distances.
	Statistics and Probability	Mean, median, mode, and probability concepts.
	Linear Graphs	Plotting points and understanding linear graphs.
	Science	Class 9 & 10 Topics:
	Physics	Laws of motion, work and energy, sound, light, and electricity, force, pressure, and velocity.
	Chemistry	Matter, elements, compounds, mixtures, acids, bases, and salts.
	Biology	Cell structure and function, human physiology, plants and animals, environment, and ecology.
	Social Science	Class 9 & 10 Topics:
	History	Ancient civilizations, Indian history from ancient to modern times.
	Geography	Physical geography (Earth's surface, climate, vegetation), Indian geography (rivers, mountains, states).
	Civics and Political Science	Constitution of India, rights and duties of citizens, political parties, and elections.
	Economics	Economic systems, basic economic concepts, and current affairs in economics.

2. Olympiads (Science, Mathematics, English, etc.)

Olympiads are prestigious competitive exams that allow students to showcase their knowledge and skills in various subjects. For students in Class 9 and 10, participating in Olympiads can provide an excellent opportunity to enhance their academic understanding and compete at the national and international levels. The Indian National Olympiad (INO) series is held for subjects like Mathematics, Physics, Chemistry, Biology, Astronomy, and English. The exams help develop critical thinking and problem-solving skills, and high performers can qualify for the International Olympiads. These exams are ideal for students aiming for a career in science and engineering. The knowledge gained from these exams is not only valuable for competition but also serves as a

solid foundation for preparing for competitive exams in Class 11 and 12, particularly for students planning careers in science and engineering.

Exam Pattern And Tentative Dates of Various Olympiads

Olympiad	Mode of Exam	Duration	Number of Questions	Sections	Marking Scheme	Negative Marking	Total Marks	Tentative Exam Dates
International Mathematics Olympiad (IMO)	Offline (Pen and Paper)	4 hours	6-7 questions	Problem-solving (Mathematics)	Partial marking is allowed	Yes	42	May-June (National stage)
International Science Olympiad (ISO)	Offline (Pen and Paper)	1 hour 30 minutes	35-40 questions	Physics, Chemistry, Biology	1 mark per correct answer	Yes (usually 1)	40-50	November-December
International Olympiad of English Language (IOEL)	Offline (Pen and Paper)	1 hour	50-60 questions	Reading comprehension, Grammar, Vocabulary	1 mark per correct answer	No	50-60	October-November
National Cyber Olympiad (NCO)	Offline (Pen and Paper)	1 hour	50-60 questions	Computer basics, Internet, IT applications	1 mark per correct answer	Yes	50-60	November-December
International Astronomy Olympiad (IAO)	Offline (Pen and Paper)	3 hours	40-50 questions	Astronomy concepts, Physics, Math	1 mark per correct answer	Yes	50-60	November
National Science Olympiad (NSO)	Offline (Pen and Paper)	1 hour 30 minutes	35-40 questions	Physics, Chemistry, Biology	1 mark per correct answer	Yes	50-60	November-December
International Olympiad in Informatics (IOI)	Online (Computer-based)	5 hours	2-3 problems	Programming, Algorithms, Data Structures	Scored based on performance in each problem	Yes	300	July (National stage)
National Geography Olympiad (NGO)	Offline (Pen and Paper)	1 hour 30 minutes	40-50 questions	Geography, Environmental Issues	1 mark per correct answer	No	40-50	November
National Economics Olympiad (NEO)	Offline (Pen and Paper)	1 hour	50-60 questions	Economics, Current Affairs	1 mark per correct answer	No	50-60	November

Syllabus For Olympiads

1. International Mathematics Olympiad (IMO)

The IMO syllabus covers Algebra (polynomials, inequalities, sequences, modular arithmetic, mathematical induction), Geometry (plane geometry, coordinate geometry, transformations), Combinatorics (counting techniques, pigeonhole principle, graph theory), and Number Theory (divisibility, prime numbers, modular arithmetic, Diophantine equations). The focus is on problem-solving and theoretical aspects of mathematics, with advanced concepts introduced in later stages.

2. International Science Olympiad (ISO)

The ISO syllabus is divided into Physics (mechanics, optics, heat, thermodynamics, electricity, and magnetism), Chemistry (atomic structure, chemical bonding, periodic table, chemical reactions, organic chemistry, and thermodynamics), and Biology (cell structure, genetics, human physiology, plant physiology, and ecology). The exam tests conceptual understanding and application of scientific principles in real-world scenarios based on the Class 9 and 10 NCERT syllabus.

4. International Olympiad of English Language (IOEL)

The IOEL syllabus focuses on improving reading comprehension, grammar, vocabulary, and writing skills. It tests students' understanding of language nuances through sections that assess sentence structure, vocabulary usage, and the ability to interpret and analyze written material. It helps build proficiency in English through varied exercises and real-life context scenarios.

5. National Cyber Olympiad (NCO)

The NCO syllabus includes topics such as computer fundamentals, operating systems, internet technology, and IT applications. It also covers basic programming concepts, data interpretation, and logical reasoning related to computers. The syllabus focuses on developing a deeper understanding of IT and the internet, with practical applications in daily life.

6. International Astronomy Olympiad (IAO)

The IAO syllabus covers topics related to astronomy, astrophysics, celestial mechanics, observational techniques, and space exploration. It includes theoretical and practical aspects of astronomy, such as the study of stars, galaxies, and the universe's structure. Students also learn to apply mathematical tools to solve problems in astronomy and space sciences.

7. National Science Olympiad (NSO)

The NSO syllabus includes Physics (motion, force, work, energy, laws of motion), Chemistry (atomic structure, reactions, acids, bases, salts), and Biology (cell structure, human physiology, plant physiology, ecology). The exam tests scientific reasoning and knowledge based on the Class 9 and 10 curriculum, focusing on application and conceptual understanding.

8. International Olympiad in Informatics (IOI)

The IOI syllabus focuses on programming (coding, algorithms, and data structures), problem-solving skills, and computational thinking. Students are tested on their ability to write efficient code to solve complex problems, covering topics like sorting, searching, dynamic programming, and graph theory. It emphasizes practical application in programming languages like C, C++, and Python.

9. National Geography Olympiad (NGO)

The NGO syllabus includes physical geography (Earth's surface, landforms, climate, and vegetation), Indian geography (rivers, mountains, states, cities), and environmental studies (ecology, environmental problems). It also covers geographical tools like maps and compasses, along with understanding the global and local impact of geographical factors.

10. National Economics Olympiad (NEO)

The NEO syllabus covers basic economic concepts, including microeconomics, macroeconomics, supply and demand, inflation, national income, and economic systems. It also includes current affairs related to economics, international trade, and economic policies. The focus is on understanding real-world economic issues and their solutions.

Study Material Link

Physics

Chapter Name - Light-Reflection and Refraction	
Concept Name	Study Link
Introduction	Study Here
Reflection Of Light	Study Here
Characteristics Of Images Formed By A Plane Mirrors	Study Here
Real And Virtual Images	Study Here
Spherical Mirrors	Study Here
Commonly Used Terms About Spherical Mirrors -1	Study Here
Commonly Used Terms About Spherical Mirrors -2	Study Here
Rules For Obtaining Images Formed By Spherical Mirrors-1	Study Here
Rules For Obtaining Images Formed By Spherical Mirrors-2	Study Here
Introduction To Spherical Lenses	Study Here
Terminologies Related To Spherical Lenses	Study Here
Image Formation By Convex Lens	Study Here
Image Formation By Concave Lens	Study Here
Refraction Of Light	Study Here
Refraction Through A Rectangular Glass Slab	Study Here
The Refractive Index	Study Here
Lens Formula And Magnification	Study Here
The Power Of A Lens	Study Here
Image Formation By Concave And Convex Mirror- For Point Object	Study Here
Image Formation By Concave Mirror- For Extended Object(i)	Study Here
Image Formation By Concave Mirror- For Extended Object(ii)	Study Here
Image Formation By Convex Mirror- For Extended Object	Study Here
Sign Convention For Reflection By Spherical Mirrors	Study Here
Mirror Formula And Magnification	Study Here
Image Formation In Lenses Using Ray Diagrams(i)	Study Here

Image Formation In Lenses Using Ray Diagrams(ii)	Study Here
Image Formation In Lenses Using Ray Diagrams(iii)	Study Here
Sign Convention For Spherical Lenses	Study Here

Chapter Name - The Human Eye and The Colourful World	
Concept Name	Study Link
Human Eye	Study Here
Defects Of Vision	Study Here
Myopia	Study Here
Hypermetropia	Study Here
Other Problems Of The Eye	Study Here
Prism	Study Here
Refraction Of Light Through A Prism	Study Here
Dispersion Of White Light By A Glass Prism	Study Here
Rainbow	Study Here
Atmospheric Refraction(i)	Study Here
Atmospheric Refraction(ii)	Study Here
Scattering Of Light	Study Here

Chapter Name - Electricity	
Concept Name	Study Link
Introduction	Study Here
Electric Charges	Study Here
Electric Potential And Potential Difference	Study Here
Electric Current And Electrical Circuits	Study Here
Circuit Diagram	Study Here
Common Measuring Instruments	Study Here
Ohm's Law	Study Here
Factors On Which The Resistance Of A Conductor Depends	Study Here
Heating Effect Of Electric Current	Study Here
Electric Power	Study Here

Resistors In Series	Study Here
Resistors In Parallel	Study Here
Factors On Which The Resistance Of A Conductor Depends	Study Here
Colour Coding And Tolerance Resistances	Study Here
KCL	Study Here
KVL	Study Here
Methods To Calculate Effective Resistance	Study Here

Chemistry

Chapter Name - Chemical Reactions And Equations	
Concept Name	Study Link
Introduction	Study Here
Chemical Reaction	Study Here
Characteristics Of Chemical Reaction	Study Here
Chemical Equation	Study Here
Balancing Chemical Equation	Study Here
Types Of Chemical Reactions	Study Here
Combination Reaction	Study Here
Decomposition Reactions	Study Here
Displacement Reaction	Study Here
Double Displacement Reaction	Study Here
Redox Reactions	Study Here
Endothermic And Exothermic Reactions	Study Here
Neutralization Reaction	Study Here
Precipitation Reaction	Study Here
Corrosion	Study Here
Rancidity	Study Here
Combustion Of Fuel	Study Here
Electrochemical Reaction In Batteries	Study Here

Chapter Name - Acids, Bases And Salts	
Concept Name	Study Link
Understanding The Chemical Properties Of Acids And Bases	Study Here
Reaction Of Acids And Bases In Water	Study Here
Introduction	Study Here
Acids	Study Here
Concentrated And Diluted Acids	Study Here
Similarity In Acids	Study Here
Stong Acids	Study Here
Weak Acids	Study Here
Bases	Study Here
Strong Bases	Study Here
Reaction Of Acids And Bases With Metals	Study Here
Reaction Of Acids And Bases In Water	Study Here
Strength Of Acids And Bases Solutions	Study Here
Universal Indicator	Study Here
Importance Of pH In Everyday Life	Study Here
Salts	Study Here
pH Of Salts	Study Here
Common Salt	Study Here
Sodium Hydroxide	Study Here
Washing Soda	Study Here
Baking Soda	Study Here
Bleaching Powder	Study Here
Plaster Of Paris	Study Here
Introduction	Study Here
Acids	Study Here
Concentrated And Diluted Acids	Study Here
Weak Acids	Study Here
Bases	Study Here
Strong Bases	Study Here
Reaction Of Acids And Bases With Metals	Study Here

Reaction Of Acids And Bases In Water	Study Here
Strength Of Acids And Bases Solutions	Study Here
Universal Indicator	Study Here
Importance Of pH In Everyday Life	Study Here
Salts	Study Here
pH Of Salts	Study Here
Common Salt	Study Here
Sodium Hydroxide	Study Here
Washing Soda	Study Here
Baking Soda	Study Here
Bleaching Powder	Study Here
Plaster Of Paris	Study Here

Chapter Name - Metals And Non-Metals	
Concept Name	Study Link
Introduction	Study Here
Physical Properties Of Metals	Study Here
Chemical Properties Of Metals - 2	Study Here
Physical Properties Of Non-metals	Study Here
Reactivity Series Of Metals And Non-metals	Study Here
Chemical Properties Of Metals	Study Here
Chemical Properties Of Non-metals	Study Here
Metallurgy	Study Here
Enrichment Of Ore	Study Here
Extraction Of Metals From Enriched Ores	Study Here
Refining Of Extracted Metal	Study Here
Corrosion	Study Here
Magnetic Seperation	Study Here

Maths

Chapter Name - Real Numbers	
Concept Name	Study Link
Euclid's Division Lemma	Study Here
Finding Hcf And LCM Using Prime Factorization	Study Here
Important Theorem Of HCF	Study Here
Unit's Place Digit In The Given Expansion - (part 1)	Study Here
Unit's Place Digit In The Given Expansion - (part 2)	Study Here
LCM And HCF Of Fractions	Study Here
Application Of HCF	Study Here
Application Of LCM	Study Here

Chapter Name - Polynomials	
Concept Name	Study Link
Introduction	Study Here
Types of Polynomials	Study Here
Value and Zero of a Polynomial	Study Here
Geometrical Meaning of the Zeroes of a Polynomial	Study Here
Relationship between Zeroes and Coefficients of a Polynomial	Study Here
Application of Algebraic Identities	Study Here
Division Algorithm for Polynomials and Reminder Theorem	Study Here
Factorization	Study Here
Algebraic Identities	Study Here
Square Root of a Polynomial	Study Here
Rational Expressions of Polynomials	Study Here

Chapter Name - Quadratic Equations	
Concept Name	Study Link
Introduction	Study Here
Roots Of A Quadratic Equation (sridharacharya Method)	Study Here

Nature Of Roots	Study Here
Application Of Root Values	Study Here
Transformation Of A Quadratic Equation	Study Here
Common Roots Of Quadratic Equations	Study Here
Maximum Or Minimum Value Of A Quadratic Expression	Study Here
Constructing A Quadratic Equation	Study Here
Word Problems - (part 1)	Study Here
Word Problems - (part 2)	Study Here

Chapter Name - Arithmetic Progressions	
Concept Name	Study Link
Sum Of N Terms Of A GP	Study Here
Harmonic Progression	Study Here
Geometric Progression	Study Here
Introduction	Study Here
Series And Progression	Study Here
Arithmetic Progression	Study Here
General Term Of An AP	Study Here
Sum Of First N Terms Of An AP	Study Here
Important Properties Of An AP	Study Here

Chapter Name - Coordinate Geometry	
Concept Name	Study Link
Cartesian Co-ordinates System (Rectangular co-ordinates)	Study Here
Distance Formula	Study Here
Section Formula	Study Here
Centroid and Incenter of a Triangle	Study Here
Area of a Triangle	Study Here
Straight Line	Study Here
Parallel and Perpendicular Lines	Study Here
Equation of Straight Line - Part 1	Study Here

Equation of Straight Line - Part 2	Study Here

Chapter Name - Triangles	
Concept Name	Study Link
Introduction	Study Here
Congruence and Criteria of Congruence of Triangle	Study Here
Congruence of Triangles	Study Here
Important Theorem of Triangles	Study Here
Inequalities in a Triangle (Part 1)	Study Here
Inequalities in a Triangle (Part 2)	Study Here
Inequalities in a Triangle (Part 3)	Study Here
Similar Figures and Criteria for Similarity of Triangles	Study Here
Basic-Proportionality Theorem or Thales' Theorem	Study Here
Similarity of Triangles - (Part 1)	Study Here
Similarity of Triangles - (Part 2)	Study Here
Areas of Similar Triangles	Study Here
Pythagoras Theorem	Study Here
Angle Bisector Theorem	Study Here
Appolonius Theorem	Study Here
Some Important Results	Study Here

Chapter Name - Pair of Linear Equations in Two Variables	
Concept Name	Study Link
Introduction	Study Here
Graphical Method and Nature of Solution	Study Here
Solving Two Simultaneous Equations - Substitution Method	Study Here
Solving Two Simultaneous Equations - Elimination Method	Study Here
Solving Two Simultaneous Equations- Cross - Multiplication Method	Study Here
Word Problems - (Part 1)	Study Here
Word Problems - (Part 2)	Study Here

Chapter Name - Introduction to Trigonometry	
Concept Name	Study Link
Introduction	Study Here
Trigonometric Ratios	Study Here
Trigonometric Ratios Of Some Specific Angles	Study Here
Sign Of Trigonometric Ratio	Study Here
Trigonometric Ratios Of Allied Angles	Study Here
Trigonometric Identities	Study Here
Trigonometric Ratio For Compound Angles	Study Here
Sum-to-product And Product-to-sum Formulas	Study Here
Sum/difference Into Product	Study Here
Double Angle Formula And Reduction Formula	Study Here
Triple Angle Formula	Study Here
Half Angle Formula	Study Here

Chapter Name - Some Applications of Trigonometry	
Concept Name	Study Link
Introduction	Study Here
Heights And Distances	Study Here

Competitive Exams For Class 11 And Class 12

1. Joint Entrance Examination (JEE) Main and Advanced

About JEE (Main) – A Gateway to Engineering Careers

The Joint Entrance Examination (JEE) Main is the most important national-level entrance exam for students aspiring to pursue undergraduate engineering degrees in India. It serves as the gateway to prestigious institutions like NITs, IIITs, and other Centrally Funded Technical Institutions (CFTIs). In addition, it is the qualifying exam for JEE Advanced, which is required for admission into the Indian Institutes of Technology (IITs).

For Class 11 students, it is ideal to begin preparing for JEE Main early, as the syllabus covers both Class 11 and 12 concepts in Physics, Chemistry, and Mathematics. This head start allows students to build a strong conceptual foundation and improve problem-solving skills.

By Class 12, students typically intensify their preparation with targeted practice, mock tests, and revision, aiming to secure a high percentile score in the actual exam.

Eligibility Criteria to Appear in JEE (Main) 2025

Age Requirement:

- No age limit to appear in JEE (Main) 2025.
- However, candidates must satisfy the age criteria of the institutes they are applying to.

Year of Passing:

- Candidates must have passed Class 12 or equivalent in 2023 or 2024, or be appearing in 2025.
- Candidates who passed in 2022 or earlier are not eligible.

Qualifying Examinations:

- Recognized 10+2 or equivalent exam with a minimum of 5 subjects.
- Includes CBSE, CISCE, NIOS, State Boards, international boards (with AIU equivalence), AICTE-approved diplomas, etc.

Subjects Required:

- Physics
- Chemistry
- Mathematics

State of Eligibility:

- Based on the location of the school where Class 12 was completed, not the state of residence.

JEE (Main) Exam Pattern 2025

- Mode of Exam: Computer Based Test (CBT) for all papers
- Type of Questions: Multiple Choice Questions (MCQs) & Numerical Value Questions
- Duration: 3 hours (180 minutes)

Marking Scheme:

- Correct Answer: +4 marks
- Incorrect Answer: -1 mark
- Unanswered: 0 marks

Paper-wise Details

Paper 1 : B.E./B.Tech		
Subject	Questions (Sec A + B)	Marks
Physics	20 MCQs + 5 NVQs	100
Chemistry	20 MCQs + 5 NVQs	100
Mathematics	20 MCQs + 5 NVQs	100
Total	75	300

NVQs = Numerical Value Questions; Attempt any 5 out of 10 in Section B for each subject.

Paper 2A : B.Arch		
Part	Questions	Marks
Mathematics	20 MCQs + 5 NVQs	100
Aptitude Test	50 MCQs	200
Drawing Test	2 questions (offline)	100
Total	77 questions	400

Paper 2B: B.Planning		
Part	Questions	Marks
Mathematics	20 MCQs + 5 NVQs	100
Aptitude Test	50 MCQs	200
Planning-Based MCQs	25 questions	100
Total	100 questions	400

JEE Main Syllabus:

Subject	Chapter Name
Mathematics	Sets, Relations, and Functions
	Complex Numbers and Quadratic Equations
	Matrices and Determinants
	Permutations and Combinations
	Binomial Theorem and Its Simple Applications
	Sequence and Series
	Limit, Continuity, and Differentiability
	Integral Calculus

	Differential Equations
	Coordinate Geometry
	Three-Dimensional Geometry
	Vector Algebra
	Statistics and Probability
	Trigonometry
Physics	Units and Measurements
	Kinematics
	Laws of Motion
	Work, Energy, and Power
	Rotational Motion
	Gravitation
	Properties of Solids and Liquids
	Thermodynamics
	Kinetic Theory of Gases
	Oscillations and Waves
	Electrostatics
	Current Electricity
	Magnetic Effects of Current and Magnetism
	Electromagnetic Induction and Alternating Currents
	Electromagnetic Waves
	Optics
	Dual Nature of Matter and Radiation
	Atoms and Nuclei
	Electronic Devices
Chemistry	Some Basic Concepts in Chemistry
	Atomic Structure

	Chemical Bonding and Molecular Structure
	Chemical Thermodynamics
	Solutions
	Equilibrium
	Redox Reactions and Electrochemistry
	Chemical Kinetics
	Classification of Elements and Periodicity
	p-Block Elements
	d- and f-Block Elements
	Coordination Compounds
	Purification and Characterisation of Organic Compounds
	Some Basic Principles of Organic Chemistry
	Hydrocarbons
	Organic Compounds Containing Halogens
	Organic Compounds Containing Oxygen
	Organic Compounds Containing Nitrogen
	Biomolecules
	Principles Related to Practical Chemistry

About JEE (Advanced) – The Gateway to IITs

The Joint Entrance Examination (Advanced), commonly known as JEE Advanced, is one of the most prestigious engineering entrance exams in India. It is the second stage of the two-tier JEE examination system and is the only gateway for admission into the Indian Institutes of Technology (IITs).

Only candidates who qualify in JEE Main (based on top ranks) are eligible to appear for JEE Advanced. It is conducted by one of the seven zonal IITs on a rotational basis, under the guidance of the Joint Admission Board (JAB).

Who Can Appear for JEE Advanced?

To be eligible for JEE Advanced, a candidate must fulfill the following general conditions:

1. Performance in JEE Main:

   Must be among the top candidates (usually top 2.5 lakh approx.) based on performance in the JEE Main Paper 1.

2. Age Limit:

   Should be born on or after a specified date (with age relaxation for reserved categories). Generally, there's a 5-year relaxation for SC, ST, and PwD candidates.

3. Number of Attempts:

   A candidate can attempt JEE Advanced a maximum of two times in two consecutive years.

4. Qualifying Exam:

   Must have passed Class 12 (or equivalent) with Physics, Chemistry, and Mathematics as mandatory subjects, in either the current year or the previous year.

5. No Previous IIT Admission:

   Candidates who have previously accepted admission at any IIT are generally not eligible (even if the admission was later cancelled).

JEE Advanced Exam Pattern

- Mode of Exam: Computer-Based Test (CBT)
- Papers: Two compulsory papers – Paper 1 and Paper 2, each of 3 hours duration.
- Subjects Covered:
  - Physics
  - Chemistry
  - Mathematics
- Question Types:
  - Multiple Choice Questions (MCQs)
  - Numerical Value Questions
  - Match-the-following or comprehension-based formats
  - Questions are designed to test deep conceptual understanding and problem-solving ability.

- Marking Scheme:
  - Varies from year to year.
  - Typically includes full marks for correct answers, partial marking, and negative marking for incorrect answers (depending on the section).
- Languages Offered:
  - English and Hindi (toggle option during exam).

What Comes After JEE Advanced?

- Based on the All India Rank (AIR) in JEE Advanced, students are allotted seats in IITs via JoSAA (Joint Seat Allocation Authority).
- Courses include B.Tech, B.S., B.Arch, Dual Degrees (B.Tech + M.Tech), and Integrated Masters Programs.

JEE Advance Exam Syllabus:

Subject	Chapter Name
Mathematics	Sets, Relations, and Functions
	Algebra
	Matrices
	Probability and Statistics
	Trigonometry
	Analytical Geometry
	Differential Calculus
	Integral Calculus
	Vectors
Physics	General
	Mechanics
	Thermal Physics
	Electricity and Magnetism

	Electromagnetic Waves
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Trigonometry	Graph of Principal Value of function f-1 (f (x)) (Part 1)	Click Here
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Trigonometry	Graph of Principal Value of function f-1 (f (x)) (Part 3)	Click Here
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Trigonometry	Sum of angles in terms of arctan	Click Here
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Trigonometry	Sum and difference of angles in terms of arcsin	Click Here
Trigonometry	Sum and difference of angles in terms of arccos	Click Here
Trigonometry	Multiple angles in terms of arcsin	Click Here
Trigonometry	Multiple angles in terms of arccos	Click Here
Trigonometry	Multiple angles in terms of arctan and arcsin	Click Here
Trigonometry	Multiple angles in terms of arctan and arccos	Click Here

2. National Eligibility cum Entrance Test (NEET)

About NEET (UG) – A Gateway to Medical Careers

The National Eligibility cum Entrance Test (NEET) is the most crucial examination for students in India aspiring to pursue careers in medicine. It is the sole entrance exam for undergraduate medical courses such as MBBS, BDS, and other allied programs across the country, including prestigious institutions like AIIMS and JIPMER.

For Class 11 students, NEET preparation typically begins during this year, laying the foundation in subjects like Physics, Chemistry, and Biology. This early start is essential, as the Class 11 syllabus forms a significant portion of the NEET question paper.

By Class 12, students intensify their preparation with a strong focus on mastering the full NCERT curriculum of both years. The NEET exam, usually conducted after Class 12 board exams, evaluates candidates' understanding of core concepts, problem-solving abilities, and time management skills.

A high NEET score opens doors to:

- Government medical colleges (offering subsidized fees)
- Private medical institutions
- All India medical institutes (AIIMS, JIPMER)

Given its importance, NEET is not just an exam—it's a defining milestone for every aspiring doctor in India.

Exam Pattern and Eligibility for NEET

Eligibility Criteria to Appear in NEET (UG)

Age Requirement:

- Candidate must be 17 years old on or before 31st December 2025.
- No upper age limit as per NMC letter dated 09 March 2022.

Nationality:

- Indian Citizens, NRIs, OCIs, Foreign Nationals, and PIOs can apply.
- Candidates intending to study abroad must also qualify NEET (UG).

Educational Qualification:

- Candidates must have passed or be appearing in Class 12 or equivalent in 2025.
- Subjects required: Physics, Chemistry, Biology/Biotechnology, and English.
- Must have passed each subject individually.
- Minimum aggregate marks in PCB (Physics, Chemistry, Biology):
  - General/Unreserved: 50%
  - SC/ST/OBC-NCL: 40%
  - PwBD (UR): 40%

NEET (UG) Exam Pattern

- Mode of Exam: Pen and paper-based (offline).
- Type of Questions: Multiple Choice Questions (MCQs).
- Total Questions: 180 questions
- Total Marks: 720 marks
- Duration: 3 hours (180 minutes)
- Timing: 02:00 PM – 05:00 PM IST

Subject-wise Distribution:

Subject	Questions	Marks
Physics	45	180
Chemistry	45	180
Biology	90	360
Total	180	720

- Marking Scheme:
  - Correct Answer: +4 marks
  - Incorrect Answer: -1 mark
  - Unanswered: 0 marks

Syllabus for NEET Exam

Subject	Chapter Name
Physics	Physics and Measurement
	Kinematics
	Laws of Motion
	Work, Energy, and Power
	Rotational Motion
	Gravitation
	Properties of Solids and Liquids
	Thermodynamics
	Kinetic Theory of Gases
	Oscillations and Waves
	Electrostatics
	Current Electricity
	Magnetic Effects of Current and Magnetism
	Electromagnetic Induction and Alternating Currents
	Electromagnetic Waves
	Optics
	Dual Nature of Matter and Radiation
	Atoms and Nuclei
	Electronic Devices
	Experimental Skills
Chemistry	Some Basic Concepts in Chemistry
	Atomic Structure
	Chemical Bonding and Molecular Structure
	Chemical Thermodynamics
	Solutions
	Equilibrium
	Redox Reactions and Electrochemistry
	Chemical Kinetics

	Classification of Elements and Periodicity in Properties
	p-Block Elements
	d- and f-Block Elements
	Coordination Compounds
	Purification and Characterisation of Organic Compounds
	Some Basic Principles of Organic Chemistry
	Hydrocarbons
	Organic Compounds Containing Halogens
	Organic Compounds Containing Oxygen
	Organic Compounds Containing Nitrogen
	Biomolecules
	Principles Related to Practical Chemistry
Biology	Diversity in the Living World
	Structural Organisation in Animals and Plants
	Cell Structure and Function
	Plant Physiology
	Human Physiology
	Reproduction
	Genetics and Evolution
	Biology and Human Welfare
	Biotechnology and Its Applications
	Ecology and Environment

NEET Study Link

Chapter	Concept	Study Link
Physics		
Physical World & Measurement	Physical quantity	Click Here
Physical World & Measurement	Fundamental and Derived Quantities	Click Here
Physical World & Measurement	System of unit	Click Here
Physical World & Measurement	Practical units	Click Here
Physical World & Measurement	Dimension	Click Here
Physical World & Measurement	Frequency, angular frequency, angular velocity, velocity gradient	Click Here
Physical World & Measurement	Work, Potential Energy, Kinetic Energy, Torque	Click Here
Physical World & Measurement	Momentum, Impulse , Angular momentum, Angular impulse	Click Here
Physical World & Measurement	Dimensionless Quantities	Click Here
Physical World & Measurement	Heat, Latent heat , Specific heat capacity and Temperature	Click Here
Physical World & Measurement	Surface tension, Surface energy	Click Here
Physical World & Measurement	Vander waals constant (a and b)	Click Here
Physical World & Measurement	Voltage,Resistance and resistivity	Click Here
Physical World & Measurement	Permittivity of free space and dielectric constant (k)	Click Here

Physical World & Measurement	Magnetic Field ,Permeability of free space, Magnetic flux and self inductance	Click Here
Physical World & Measurement	Application of Dimensional analysis (I)- To find dimension of physical constant	Click Here
Physical World & Measurement	Application of Dimensional analysis (II)- To convert a physical quantity from one system to other	Click Here
Physical World & Measurement	Application of Dimensional analysis (III)- Check the dimensional correctness	Click Here
Physical World & Measurement	Application of Dimensional analysis (IV)- To find the unit of physical quantity in a given system"	Click Here
Physical World & Measurement	Application of Dimensional analysis (V)- As a research tool to derive new relations	Click Here
Physical World & Measurement	Significant figures	Click Here
Physical World & Measurement	Errors of measurements	Click Here
Physical World & Measurement	Error in sum and Error in difference of two physical quantities	Click Here
Physical World & Measurement	Error in product and Error in division of two physical quantities	Click Here
Physical World & Measurement	Error in quantity raised to some power	Click Here
Kinematics	Kinematics terminologies	Click Here
Kinematics	Mathematical tool used in Kinematics	Click Here
Kinematics	Scalars and vectors	Click Here
Kinematics	Vector addition and Vector Subtraction	Click Here
Kinematics	Uniform circular motion	Click Here
Kinematics	MULTIPLICATION OF VECTORS	Click Here
Kinematics	Distance and displacement	Click Here
Kinematics	Speed and velocity	Click Here
Kinematics	Acceleration	Click Here
Kinematics	Kinematics graphs	Click Here
Kinematics	Equation of motions	Click Here
Kinematics	Motion of Body Under Gravity (Free Fall)	Click Here

Kinematics	Projectile Motion	Click Here
Kinematics	Projectile motion when projected horizontally	Click Here
Kinematics	Equation of path of a projectile	Click Here
Kinematics	Projectile on an inclined plane	Click Here
Kinematics	Relative Velocity	Click Here
Kinematics	Boat river Problem	Click Here
Kinematics	Rain - Man Problem	Click Here
Laws of motion	Inertia	Click Here
Laws of motion	Forces	Click Here
Laws of motion	Common forces in mechanics	Click Here
Laws of motion	Equilibrium of concurrent forces	Click Here
Laws of motion	Newton's First law of motion	Click Here
Laws of motion	Linear Momentum	Click Here
Laws of motion	Newton's Second and Third Law of motion	Click Here
Laws of motion	Acceleration of Block on horizontal smooth surface	Click Here
Laws of motion	Acceleration of Block on Smooth Inclined Plane	Click Here
Laws of motion	Motion of Block in Contact	Click Here
Laws of motion	Motion of blocks when connected with string	Click Here
Laws of motion	Motion of connected blocks over pulley	Click Here
Laws of motion	When one Block is hanging from a rope and one on the table	Click Here
Laws of motion	Apparent weight of body in a lift (I)	Click Here
Laws of motion	Recoiling of Gun	Click Here
Laws of motion	Rocket Propulsion	Click Here
Laws of motion	Friction	Click Here
Laws of motion	Kinetic Friction	Click Here
Laws of motion	Static Friction	Click Here
Laws of motion	Graph between Applied Force and the Force of Friction & Angle of Friction	Click Here
Laws of motion	Angle of Repose	Click Here
Laws of motion	Calculation of Required force in different situations(1)	Click Here

Laws of motion	Calculation of Required force in different situations(2)	Click Here
Laws of motion	Calculation of Required force in different situations(3)	Click Here
Laws of motion	Calculation of Required force in different situations(4)	Click Here
Laws of motion	Acceleration of block against friction	Click Here
Laws of motion	Motion of Two Bodies one Resting on the Other(1)	Click Here
Laws of motion	Motion of Two Bodies one Resting on the Other(2)	Click Here
Laws of motion	Motion of an Insect in the Rough Bowl	Click Here
Laws of motion	Minimum Mass Hung from the String to Just Start the Motion	Click Here
Laws of motion	Maximum Length of Hung Chain	Click Here
Laws of motion	Coefficient of Friction Between a Body and Wedge	Click Here
Laws of motion	Stopping of Block Due to Friction	Click Here
Laws of motion	Sticking of a Block With Accelerated Cart	Click Here
Laws of motion	Centripetal Force and Centrifugal Force	Click Here
Laws of motion	Spring Force	Click Here
Laws of motion	Sticking of Person with the wall of Rotor(Death well)	Click Here
Laws of motion	Skidding of Vehicle on a Level Road	Click Here
Laws of motion	Skidding of object on a Rotating Platform	Click Here
Laws of motion	Bending a Cyclist	Click Here
Laws of motion	Banking of Road	Click Here
Laws of motion	Reaction of Road on Car	Click Here
Laws of motion	Force in non-uniform Circular Motion	Click Here
Work, energy and power	Work done by a constant force	Click Here
Work, energy and power	Nature of Work Done	Click Here
Work, energy and power	Work done by variable force	Click Here
Work, energy and power	Work done by the frictional force	Click Here

Work, energy and power	Work Done in Conservative and Non-Conservative Field	Click Here
Work, energy and power	Energy	Click Here
Work, energy and power	Kinetic energy	Click Here
Work, energy and power	Potential energy	Click Here
Work, energy and power	Potential energy curve	Click Here
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3. Common Law Admission Test (CLAT)

About CLAT – Gateway to Top Law Schools in India

The Common Law Admission Test (CLAT) is a national-level entrance exam conducted for admission to undergraduate (UG) and postgraduate (PG) law programs at 22 National Law Universities (NLUs) across India. CLAT is conducted by the Consortium of National Law Universities.

CLAT is also accepted by several other private and public law schools in India. The exam tests students on core areas of law, reasoning, comprehension, and general awareness.

CLAT UG – Five-Year Integrated B.A. LL.B. (Hons.)

Eligibility Criteria:

- Educational Qualification: Passed 10+2 or equivalent exam.
  - General/OBC/EWS/PwD: Minimum 45%
  - SC/ST: Minimum 40%
- Students appearing in 10+2 exams are also eligible (provisional admission).
- No upper age limit for appearing in CLAT UG.
- International students can apply through NLSAT-International (for select institutions like NLSIU).

Exam Pattern:

- Mode: Offline (pen-and-paper)
- Duration: 2 hours
- Total Marks: 120
- Sections:
  - English Language
  - Current Affairs including General Knowledge
  - Legal Reasoning
  - Logical Reasoning
  - Quantitative Techniques
- Type of Questions: Comprehension-based MCQs

- Marking Scheme:
  - +1 for correct answer
  - −0.25 for incorrect answer

CLAT PG – One-Year LL.M. Programme

Eligibility Criteria:

- Educational Qualification: LL.B. or equivalent degree
  - General/OBC/EWS/PwD: Minimum 50%
  - SC/ST: Minimum 45%
- Final year LL.B. students may also apply (provisional admission).
- No upper age limit for CLAT PG.
- International students may appear through NLSAT-International (for NLSIU and others that offer it).

Exam Pattern:

- Mode: Offline
- Duration: 2 hours
- Total Marks: 120
- Sections:
  - 120 multiple-choice questions based on core law subjects like Constitutional Law, Jurisprudence, Criminal Law, Contract Law, etc.
- Marking Scheme:
  - +1 for correct answer
  - −0.25 for incorrect answer

Institutions Accepting CLAT

- 22 National Law Universities (NLUs) use CLAT for UG and PG admissions (excluding NLU Delhi, which conducts AILET).
- Other institutions and universities also accept CLAT scores.
- Syllabus for CLAT

Section	Syllabus / Skills Assessed
English Language	Reading and comprehension of passages (approx. 450 words) from fiction and non-fiction Identify main points, arguments, and viewpoints Draw inferences and conclusions Summarise passages Compare and contrast arguments or viewpoints Understand meanings of words and phrases in context
Current Affairs including General Knowledge	Passages from news, journalistic and non-fiction sources Awareness of Contemporary events (India & world), Arts and culture, International affairs and Historical events of continuing relevance
Legal Reasoning	Passages on legal, policy, or moral issues (approx. 450 words) Identify and infer legal principles or rules Apply rules to different fact situations Understand how changes in rules affect outcomes No prior legal knowledge required
Logical Reasoning	Passages (approx. 450 words) followed by reasoning questions Recognize arguments, premises, and conclusions Analyze reasoning and evaluate premises Infer outcomes and apply them Identify analogies, contradictions, equivalence
Quantitative Techniques	Short facts or numerical information in text/passage format Interpret, derive, and manipulate numerical data Apply 10th standard level maths including Ratios and proportions, Basic algebra, Mensuration and Statistical estimation

4. National Defence Academy (NDA)

About NDA – Entry into the Indian Armed Forces

The National Defence Academy (NDA) is the premier training institution for candidates aspiring to become officers in the Indian Army, Navy, and Air Force. It is the world's first tri-service academy where cadets of all three services train together before joining their respective academies for specialized training.

Conducted by the Union Public Service Commission (UPSC) twice a year, the NDA exam allows Class 12 students or those appearing in it to pursue a career in the armed forces. The selection process involves a written exam followed by the SSB interview, which tests a candidate's intelligence, personality, and leadership potential.

Cadets undergo three years of academic and physical training at NDA, followed by professional training at IMA, INA, or AFA. NDA not only builds academic knowledge but also discipline, courage, and patriotism, shaping young minds into future military leaders.

It is a highly respected career path for those who dream of serving the nation with pride and honor right after school.

Eligibility Criteria

1. Nationality:

- Must be:
  - A citizen of India, or
  - A subject of Nepal, or
  - A person of Indian origin migrated from specified countries (with eligibility certificate from Govt. of India)

2. Age Limit:

- Candidates must be unmarried and between 16.5 to 19.5 years of age.
- Birth date range usually falls between July 2, XXXX and July 1, XXXX+3 (exact years vary by exam cycle).

3. Educational Qualification:

- Army Wing: Passed Class 12 or equivalent.
- Air Force & Naval Wings / Naval Academy (10+2 Cadet Entry): Passed Class 12 with Physics and Mathematics.

- Students appearing in Class 12 may also apply.

4. Marital Status:

- Only unmarried male and female candidates are eligible. Marrying during training leads to disqualification.

5. Physical Standards:

- Must meet specific medical and physical fitness criteria (height, vision, general health), as detailed in the appendix of the official notice.

Eligibility Criteria

Paper	Subject	Duration	Marks
Paper I	Mathematics	2.5 hours	300
Paper II	General Ability Test	2.5 hours	600
SSB Interview	Personality + Aptitude	–	900
Total	–	–	1800

- Mode of Exam: Offline (Pen-and-paper)
- Type: Objective (MCQs)
- Medium: Bilingual (Hindi & English for most papers)
- Negative Marking: Yes (1/3rd mark deduction for wrong answers)

Syllabus Overview

Paper I – Mathematics (300 marks):

- Algebra, Trigonometry, Calculus, Geometry (2D & 3D), Statistics & Probability, Matrices and Determinants, Vector Algebra

Paper II – General Ability Test (600 marks):

- Part A (English – 200 marks): Grammar, Vocabulary, Comprehension
- Part B (General Knowledge – 400 marks):
  - Physics, Chemistry, Biology

- History, Geography, Polity, Current Affairs

SSB Interview

The Services Selection Board (SSB) interview is a two-stage selection process:

1) Stage I – Screening Test (includes Picture Perception and Intelligence Test)
2) Stage II – Psychological Test, Group Testing, Personal Interview, and Conference

Total marks: 900

Final Selection

Candidates are selected based on:

- Written Exam (900 marks)
- SSB Interview (900 marks)

Final merit list is based on 1800 marks, subject to medical fitness and document verification.

5. Common University Entrance Test (CUET)

About CUET (UG) – Common University Entrance Test

The Common University Entrance Test (CUET-UG) is conducted by the National Testing Agency (NTA) for admission to undergraduate programs in Central Universities and several other participating institutions across India. CUET provides a single, standardized entrance exam, offering equal opportunity to students from various boards and regions, eliminating the need for high board cut-offs or multiple entrance exams.

The exam evaluates students based on their proficiency in languages, domain-specific subjects, and a general test (if applicable). CUET scores are accepted by top universities like Delhi University, BHU, JNU, Jamia Millia Islamia, and more, across diverse undergraduate programs.

Eligibility Criteria

- Educational Qualification:

  Candidates must have passed or be appearing in Class 12 or equivalent examination from a recognized board.

- Age Limit:

  There is no age limit to appear for CUET (UG).

  However, candidates must meet the age and course-specific criteria of the universities they apply to.

- University-Specific Requirements:

  Each participating university has its own subject combinations and eligibility conditions. Candidates must verify the requirements on respective university websites.

CUET (UG) Exam Pattern

Component	Details
Mode of Exam	Computer-Based Test (CBT)
Total no of Questions	50 (Each subject)
Type of Questions	Multiple Choice Questions (MCQs)
Marking Scheme	5 marks for correct answer

	−1 mark for incorrect answer
Duration per Test	60 minutes per subject/test
Medium of Exam	13 languages (English, Hindi, Tamil, Telugu, Bengali, etc.)
Number of Test Papers	Up to 5 (Languages + Domain Subjects + General Test)

Test Paper Choices and Sections

Section	Content	Questions	Duration
Languages	13 Languages (Section IA) & 20 Additional (Section IB)	50	60 minutes
Domain Subjects	Choose from 23 subjects (as per university requirements)	50	60 minutes
General Test	Quantitative Aptitude, Reasoning, GK, Current Affairs	50	60 minutes

CUET (UG) Syllabus

Section	Syllabus Components
Language Subjects	Reading Comprehension (Factual, Literary, Narrative passages) Literary Aptitude Vocabulary
Domain Subjects	Based on the NCERT Class 12 syllabus of the respective subject
General Aptitude Test	General Knowledge Current Affairs General Mental Ability Numerical Ability Quantitative Reasoning (basic Arithmetic, Algebra, Geometry, Mensuration, Statistics) Logical and Analytical Reasoning

6. JNV Class 11 Admission: Lateral Entry Selection Test (LEST)

About JNV – Class XI Admission (Lateral Entry)

Jawahar Navodaya Vidyalayas (JNVs) are co-educational, fully residential schools established by the Government of India to provide quality modern education primarily to talented children from rural areas. For Class XI admission, JNV conducts a Lateral Entry Selection Test against available vacancies. Students undergo a common entrance test and are allotted streams (Science, Commerce, Humanities, or Vocational) based on performance and seat availability.

Eligibility Criteria

- Date of Birth: Should fall between 1st June and 31st July (both dates inclusive).
- Educational Requirement: Must be studying in Class X in a recognized school in the same district where admission is sought.
- Other Conditions: Students who have passed Class X in previous sessions are not eligible.

Exam Pattern

Subject	No. of Questions	Marks	Time
Mental Ability	20	20	30 minutes
English	20	20	30 minutes
Science	20	20	30 minutes
Social Science	20	20	30 minutes
Mathematics	20	20	30 minutes
Total	100	100	2 hr 30 min

- Exam Syllabus

Mental Ability: Pattern Completion, Figure Series Completion, Geometrical Figure Completion (Triangle, Square, Circle), Mirror Imaging, Punched Hole Pattern, Calendar, Time, Clock, Embedded Figures, Coding-Decoding, Orientation/Direction, Space Visualization

English: Unseen Passages (Discursive, Case-based with visual input), Tenses, Modals, Subject-Verb Concord, Reported Speech (commands, requests, statements, questions), Determiners, Spelling, Syntax

Mathematics: Real Numbers, Polynomials, Linear Equations in Two Variables, Quadratic Equations, Arithmetic Progressions, Coordinate Geometry

Science:

- Biology: Life Processes, Reproduction, Heredity
- Physics: Light, Refraction, Mirrors and Lenses, Electricity, Magnetic Effects of Electric Current, Domestic Electric Circuits
- Chemistry: Chemical Reactions and Equations, Acids Bases and Salts, Metals and Non-Metals, Carbon and its Compounds

Social Science:

- History: Nationalism in Europe, Nationalism in India
- Geography: Resources and Development
- Civics: Power Sharing, Federalism, Democracy and Diversity
- Economics: Development, Sectors of the Indian Economy, Money and Credit

Strategies for Competitive Exam Preparation

Preparing for competitive exams like CUET, NEET, JEE, CLAT, NDA, or JNV requires more than just studying hard. It demands a smart and focused strategy to stay ahead of the competition. Here is a detailed guide that breaks down each crucial step:

1. Understand the Exam Pattern and Syllabus

Understanding the blueprint of your exam is the first and most critical step:

- Study the exam pattern: number of sections, question types (MCQs, numerical, comprehension), marking scheme, and total time.
- Analyze the syllabus in detail and categorize topics into:
  - High-weightage
  - Moderate
  - Low-weightage

Tip: Create a syllabus checklist to track your preparation progress visually.

2. Design a Realistic and Personalized Study Plan

Time management begins with a good study schedule:

- Break your time into daily, weekly, and monthly goals.
- Use the 80/20 rule: 80% time for studying, 20% for mock tests and revision.
- Prioritize difficult subjects or those that carry more weight.

Graphical Aid: Use a Gantt chart or weekly planner layout to visualize your schedule.

3. Use the Right Study Resources

The quality of study material matters more than the quantity:

- Stick to NCERT textbooks as your base, especially for CUET, NEET, and JNV.
- Supplement with standard guides and previous year question papers.
- Avoid overloading with too many books; choose one trusted source per subject.

4. Practice with Mock Tests and Previous Year Papers

Regular practice boosts both confidence and accuracy:

- Take full-length mock tests under timed conditions.
- Solve topic-wise practice sets and past year questions.
- Analyze each test: identify errors, weak topics, and time-consuming questions.

Graphical Tip: Maintain an error-analysis sheet or bar graph to track performance per subject.

5. Revise Consistently

Don't just study—revise smartly:

- Create flashcards or summary notes for formulas, definitions, and key points.
- Use the Feynman technique: explain concepts in your own words.
- Do weekly and monthly reviews.

Visual Tip: Mind maps and color-coded notes enhance memory retention.

6. Master Time Management in Exams

Efficiency during the exam can make or break your performance:

- Begin with easier questions to build momentum.
- Set time goals for each section during mock tests.
- Practice skipping and returning to difficult questions.

Suggested Tool: Try using a Pomodoro timer technique during practice.

7. Maintain Physical and Mental Well-being

A healthy mind lives in a healthy body:

- Get 7–8 hours of sleep daily.
- Eat nutritious food and stay hydrated.
- Take regular breaks and include light physical activity (e.g., walking, yoga).

Mental Health Tip: Practice mindfulness or meditation to stay focused and reduce anxiety.

Competitive exams are marathons, not sprints. With the right strategy, balanced preparation, and consistent effort, you can reach your target. Believe in your preparation, stay positive, and keep your eyes on the goal.

Study Plan for Competitive Exam Preparation

A well-planned study schedule is essential for cracking competitive exams such as CUET, NEET, JEE, CLAT, NDA, and JNV. The right plan helps you cover the syllabus thoroughly, manage time efficiently, and maintain consistent performance.

Step 1: Define Your Goal and Timeline

- Note the exam date and count the number of weeks/months available.
- Break your preparation into phases:
  - Phase 1: Learning (Concept-building)
  - Phase 2: Practice & Strengthening
  - Phase 3: Revision & Testing

Example:

- If you have 4 months:
  - Month 1–2: Learn and understand all topics
  - Month 3: Practice questions and take topic-wise tests
  - Month 4: Full mock tests, revision, weak-area focus

Step 2: Divide the Syllabus

- Break your subjects into weekly targets.
- Prioritize high-weightage and difficult topics early.
- Keep a mix of subjects daily (e.g., Physics + English + Biology).

Weekly Format Example:

Day	Morning	Afternoon	Evening
Monday	Physics Theory	English Grammar	Biology Diagrams
Tuesday	Maths Practice	Chemistry Theory	Current Affairs
...	...	...	...

Step 3: Daily Study Routine

Time	Task
6:00 AM	Wake up & light revision
7:00–9:00 AM	Core Subject (e.g., Physics)
10:00–12:00 PM	Secondary Subject (e.g., English)
1:00–2:00 PM	Break / Lunch
2:00–4:00 PM	Practice session (MCQs, numericals)
5:00–7:00 PM	Revision of weak topics
8:00–9:00 PM	Light reading / Current affairs

Step 4: Weekly Evaluation

- Every Sunday, take a topic-wise or full mock test.
- Analyze your performance:
  - Time spent vs. time planned
  - Accuracy & mistakes
  - Areas needing more focus

Tool Tip: Use a score tracker or bar chart to monitor weekly progress.

Step 5: Final Month Strategy

- Focus on:
  - Full syllabus revision
  - Solving full-length mock tests
  - Clearing frequent mistakes
- Revise formulas, dates, diagrams, definitions.
- Practice time-bound tests to build speed and accuracy.

Bonus Tips

- Stick to the plan but allow for flexibility.
- Take 10-minute breaks every hour.
- Track your habits with a study journal.
- Stay motivated with short-term rewards.
- Always keep a buffer week for unexpected delays.