

CIPET JEE Syllabus & Pattern

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S.No.	Subjects/ Discipline area	No. of question (course wise)		
		DPT & DPMT	PGD-PPT	PD-PMD
1	General Knowledge (Sports, History, Politics, Computer Sc., entertainment, current affairs etc.)	50	40	40
2	Science & Maths	40	20	20
3	English	10	20	20
4	Chemistry, Physics, Biology, Maths, etc. at B.Sc. level.	–	20	–
5	Mech., Production, Instrumentation, Plastics / Polymers, Tool room, industrial etc. at Diploma in Engg./ Tech. level.	–	–	20
Total Marks		100	100	100

Mathematics

- Integral Calculus And Its Applications Methods Of Integration Standard Types
- Differential Calculus
- Vector Algebra
- Theory Of Equations, Sequence, And Series
- Complex Numbers & Trigonometry
- Matrices and Determinants
- Discrete Mathematics
- Probability Distributions
- Differential Equations
- Analytical Geometry

Physics

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- Thermal and Chemical Effects of Currents
- Solids and Semiconductor Devices
- Work, Energy, and Power
- Waves
- Oscillations
- Description of Motion in Two and Three Dimensions
- Rotational Motion
- Ray Optics and Optical Instruments
- Magnetic Effect of Currents
- Electromagnetic Waves
- Magnetism
- Heat and Thermodynamics
- Gravitation
- Laws of Motion
- Introduction and Measurement
- Electrostatics
- Description of Motion in One Dimension
- Electromagnetic Induction and Alternating Currents
- Current Electricity
- Electrons and Photons
- Atoms, Molecules, and Nuclei

Chemistry

- Preparation, properties, and reactions of alkenes and alkynes
- Reactions of benzene
- Transition elements (3d series)
- Solutions
- Electrochemistry
- Solid-state
- General topics
- Principles of qualitative analysis
- Surface chemistry
- Preparation, properties, and reactions of alkanes
- Nuclear chemistry
- Practical organic chemistry
- Properties and uses of some important polymers
- Phenols
- Extractive metallurgy
- Gaseous and liquid states
- Carbohydrates

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- Energetics
- Chemical kinetics
- Amino acids and peptides
- Chemical equilibrium
- Atomic structure and chemical bonding

General Knowledge

- Capitals of India
- Indian Economy
- Science – Inventions & Discoveries
- Books and Authors
- Science and Technology
- International and National Organizations
- Budget and Five Year Plans
- Awards and Honors
- Abbreviations
- Indian National Movement
- Sports
- Current Affairs – National and International
- General Policy
- Indian History
- Countries and Capitals

English Syllabus

- Gerunds
- Identify the Errors
- Idioms and Phrases
- Sentence Completion
- Prefix
- Passage Completion
- Sentence Arrangement
- Fill in the blanks
- Transformation
- Spotting Errors
- Substitution
- Homophones
- Identify the Sentences
- Nouns
- Synonyms

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- **Antonyms**
- **Plural Forms**
- **Adjectives**
- **Sentence Improvement**
- **Joining Sentences**
- **Error Correction (Phrase in Bold)**
- **Articles**
- **Odd Words**
- **Prepositions**
- **Para Completion**
- **Prepositions**
- **Active and Passive Voice**
- **Suffix**
- **Error Correction (Underlined Part)**
- **Spelling Test**
- **Sentence Pattern**
- **Tag Questions**

Biology

- **Important and Interesting facts about human body parts**
- **Nutrition in Animals and Plants**
- **Diseases and their causes like Bacteria**

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