JEE Main Free Study Notes

Joint Entrance Examination (Main) — conducted by National Testing Agency (NTA). Prepared by PracticeMockTest (practicemocks.in). Always confirm details in the official notification.

Exam pattern

Pattern: Stages, marks, timing and negative marking are set in each cycle's official notification — check it before you start.

Syllabus checklist

- ☐ Physics
- ☐ Chemistry
- ☐ Mathematics

Study plan tips

1. Read the official notification first and note eligibility, dates and the exact pattern.
2. Split the syllabus into weekly targets; finish each topic with 20–30 practice questions.
3. Take one full timed mock test every week, then review every wrong answer.
4. Keep a one-page formula/fact sheet per subject and revise it daily.
5. In the last month, focus on mocks, revision and previous-year papers from the official site.

Practice questions with solutions

1. A body moves 100 m in 5 s at uniform speed. Speed?
A. 10 m/s B. 20 m/s C. 25 m/s D. 50 m/s

Answer: B. Speed = 100 / 5 = 20 m/s.

2. Atomic number of carbon:
A. 4 B. 6 C. 8 D. 12

Answer: B. Carbon has 6 protons.

3. Derivative of x^3:
A. x^2 B. $3x^2$ C. $3x$ D. $x^3/3$

Answer: B. $d/dx\ x^n = n \cdot x^{n-1} \rightarrow 3x^2$.

4. If $\log_{10} x = 2$, x =
A. 20 B. 100 C. 200 D. 1000

Answer: B. $x = 10^2 = 100$.

5. SI unit of power:
A. Joule B. Watt C. Newton D. Volt

Answer: B. Power = energy per second, measured in watts.

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