MHT CET 2026 April 25 Shift 2

Question Paper (memory based)

Conducted by CET Cell, Maharashtra

General Instructions

(i) **Duration:** The total duration of the examination is 3 hours (180 minutes).

(ii) **Total Marks:** The complete paper carries a maximum of 200 marks.

(iii) **Structure:** The paper has 3 Sections:

- **Section A:** 50 Multiple Choice Questions (Physics).
- **Section B:** 50 Multiple Choice Questions (Chemistry).
- **Section B:** 100 Multiple Choice Questions (Biology).

(iv) **Compulsory Questions:** All 200 questions are compulsory.

(v) Each question has four options. Only **one** option is correct.

(vi) **Correct Answer:** +1 marks.

(vii) **Incorrect Answer:** (No Negative marking).

(viii) **Unanswered/Marked for Review:** 0 marks.

1. The moment of inertia of a thin uniform rod of mass M and length L about an axis passing through its centre and perpendicular to its length is:

(A) $ML^2/3$

(B) $ML^2/12$

(C) $ML^2/6$

(D) $ML^2/2$

2. If the temperature of a hot reservoir is 600K and the cold reservoir is 300K, the efficiency of the Carnot engine is:

(A) 25%

(B) 75%

(C) 50%

(D) 100%

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3. The SI unit of Magnetic Induction is:

(A) Weber

(B) Tesla

(C) Henry

(D) Gauss

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4. In a stationary wave, the distance between a node and an adjacent antinode is:

(A) $\lambda/2$

(B) λ

(C) $\lambda/4$

(D) 2λ

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5. The maximum kinetic energy of photoelectrons depends on:

(A) Intensity of light

(B) Frequency of light

(C) Time of exposure

(D) Distance from source

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6. Which of the following is a monomer of Nylon 6,6?

(A) Caprolactam

(B) Adipic acid

(C) Glycine

(D) Vinyl chloride

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7. Ozonolysis of 2-Methylbut-2-ene followed by reaction with Zn/H_2O gives:

(A) Propanone and Ethanal

(B) Propanal and Ethanal

(C) Two moles of Propanone

(D) Butanone and Methanal

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8. The EAN (Effective Atomic Number) of Iron in $[Fe(CN)_6]^{4-}$ is:

(A) 34

(B) 35

(C) 36

(D) 38

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9. Which element has the highest electronegativity?

(A) Lithium

(B) Sodium

(C) Potassium

(D) Fluorine

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10. The catalyst used in the manufacture of Ammonia by Haber's process is:

(A) V_2O_5

(B) Finely divided Iron

(C) Platinum

(D) Nickel
