

MHT CET 2026 April 26 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 C:** 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) **Right Answer:** Physics (+1 marks), Chemistry (+1 marks) and Biology(+1 marks).
- (vii) **Incorrect Answer:** (No Negative marking).
- (viii) **Unanswered/Marked for Review:** 0 marks.

1. Which animal shows the most primitive nervous system?

- (A) Earthworm
- (B) Hydra
- (C) Cockroach
- (D) Planaria

2. The specific site of sperm production within the human male reproductive system is:

- (A) Vas deferens
- (B) Epididymis

- (C) Seminiferous Tubules
(D) Prostate gland
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3. An interaction where one species is harmed while the other remains unaffected (0, −) is:

- (A) Commensalism
(B) Parasitism
(C) Amensalism
(D) Mutualism
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4. Which of the following serves as the monomer for the synthetic polymer Nylon 6?

- (A) Adipic acid
(B) Caprolactam
(C) Hexamethylenediamine
(D) Ethylene glycol
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5. A carrier daughter ($X^N X^c$) of a colour blind father marries a normal male ($X^N Y$). What is the probability of a colour blind son?

- (A) 0%
(B) 25%
(C) 50%
(D) 75%
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6. The moment of inertia of a uniform thin rod of mass M and length L about an axis passing through its center and perpendicular to its length is:

- (A) $ML^2/3$
(B) $ML^2/12$
(C) $ML^2/2$
(D) $ML^2/6$
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7. In a stationary wave, the distance between a node and the adjacent antinode is:

- (A) λ
(B) $\lambda/2$
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- (C) $\lambda/4$
 - (D) 2λ
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8. To convert a galvanometer into a voltmeter, one must connect a:

- (A) Low resistance in series
 - (B) High resistance in series
 - (C) Low resistance in parallel
 - (D) High resistance in parallel
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9. If the temperature of the source in a Carnot engine is increased while the sink temperature remains constant, the efficiency will:

- (A) Increase
 - (B) Decrease
 - (C) Remain the same
 - (D) Become zero
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10. The work done in rotating an electric dipole of dipole moment p in a uniform electric field E from $\theta = 0^\circ$ to $\theta = 180^\circ$ is:

- (A) pE
 - (B) $2pE$
 - (C) Zero
 - (D) $-2pE$
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11. Which of the following is the monomer of the polymer Nylon 6?

- (A) Adipic acid
 - (B) Caprolactam
 - (C) Ethylene glycol
 - (D) Vinyl chloride
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12. The number of atoms per unit cell in a Body-Centered Cubic (BCC) structure is:

- (A) 1
 - (B) 2
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(C) 4

(D) 6

13. Lucas reagent, used to distinguish between primary, secondary, and tertiary alcohols, is a mixture of:

(A) Conc. HCl + anhydrous ZnCl_2

(B) Conc. HNO_3 + AgNO_3

(C) Pd + BaSO_4

(D) NH_4OH + AgNO_3

14. What is the product formed when chlorobenzene undergoes nitration with concentrated HNO_3 and H_2SO_4 ?

(A) Nitrobenzene

(B) 1,3-Dinitrobenzene

(C) o- and p-Nitrochlorobenzene

(D) Chlorobenzene sulfonic acid

15. Which transition element among the following shows the highest number of oxidation states?

(A) Scandium (Sc)

(B) Iron (Fe)

(C) Manganese (Mn)

(D) Zinc (Zn)
