

MHT CET 2026 April 22 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. Calculate the centripetal acceleration of a particle moving in a circle of radius 5 m with a velocity of 20 m/s.

- (A) 80 m/s^2
- (B) 40 m/s^2
- (C) 100 m/s^2
- (D) 160 m/s^2

2. What is the working principle behind signal transmission in an optical fiber?

- (A) Refraction

- (B) Diffraction
 - (C) Total Internal Reflection
 - (D) Interference
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3. Find the equivalent resistance of three resistors of 6Ω each connected in parallel.

- (A) 6Ω
 - (B) 3Ω
 - (C) 2Ω
 - (D) 1Ω
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4. According to Curie's Law, what happens to magnetic susceptibility if absolute temperature is doubled?

- (A) It doubles
 - (B) It is halved
 - (C) It remains constant
 - (D) It becomes zero
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5. Which series of the Hydrogen spectrum lies in the visible region?

- (A) Lyman Series
 - (B) Balmer Series
 - (C) Paschen Series
 - (D) Brackett Series
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6. Arrange carbocations in increasing order of stability.

- (A) Tertiary < Secondary < Primary
 - (B) Primary < Secondary < Tertiary
 - (C) Secondary < Primary < Tertiary
 - (D) Primary < Tertiary < Secondary
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7. What is the oxidation state of Phosphorus in H_3PO_4 ?

- (A) +3
- (B) +5

(C) +1

(D) -3

8. What color is produced when Phenol reacts with neutral Ferric Chloride?

(A) Blue

(B) Violet

(C) Green

(D) Yellow

9. Calculate the pH of a 0.001 M solution of HNO_3 .

(A) 1

(B) 2

(C) 3

(D) 4

10. What are the monomers of Buna-S?

(A) Ethene and Styrene

(B) 1,3-Butadiene and Styrene

(C) Isoprene and Styrene

(D) Butadiene and Vinyl Chloride

11. Which plant hormone promotes apical dominance?

(A) Gibberellin

(B) Cytokinin

(C) Auxin

(D) Ethylene

12. Name the antibody most abundant in human colostrum.

(A) IgG

(B) IgM

(C) IgA

(D) IgE

13. What is the phenotypic ratio of a Mendelian dihybrid cross in F_2 ?

- (A) 3 : 1
 - (B) 1 : 2 : 1
 - (C) 9 : 3 : 3 : 1
 - (D) 1 : 1 : 1 : 1
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14. Which enzyme acts as “molecular glue” to join DNA fragments?

- (A) DNA Polymerase
 - (B) DNA Ligase
 - (C) Helicase
 - (D) Restriction Endonuclease
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15. In which ecological interaction is one species harmed while the other is unaffected?

- (A) Mutualism
 - (B) Parasitism
 - (C) Commensalism
 - (D) Amensalism
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