

MHT CET 2026 Biology Memory Based Question Paper PDF

Physics

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
3. Find the equivalent resistance of three resistors of 6Ω each connected in parallel.
 - (a) 6Ω
 - (b) 3Ω
 - (c) 2Ω
 - (d) 1Ω
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
5. Which series of the Hydrogen spectrum lies in the visible region?
 - (a) Lyman Series
 - (b) Balmer Series
 - (c) Paschen Series
 - (d) Brackett Series

Chemistry

6. Arrange carbocations in increasing order of stability.
 - (a) Tertiary < Secondary < Primary
 - (b) Primary < Secondary < Tertiary
 - (c) Secondary < Primary < Tertiary
 - (d) Primary < Tertiary < Secondary
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

Biology

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
14. Which enzyme acts as “molecular glue” to join DNA fragments?
- (a) DNA Polymerase
 - (b) DNA Ligase
 - (c) Helicase
 - (d) Restriction Endonuclease
15. In which ecological interaction is one species harmed while the other is unaffected?
- (a) Mutualism
 - (b) Parasitism
 - (c) Commensalism
 - (d) Amensalism