

MHT CET 2026 Biology Memory Based Question Paper PDF

Biology

1. How many times does oxidation occur in one Krebs cycle?
 - (a) Two times
 - (b) Three times
 - (c) Four times
 - (d) Six times
2. In hydrosere succession, which stage comes just before the sedge meadow stage?
 - (a) Phytoplankton stage
 - (b) Submerged plant stage
 - (c) Reed swamp stage
 - (d) Woodland stage
3. Which part of the brain is responsible for maintaining posture and equilibrium?
 - (a) Cerebrum
 - (b) Medulla oblongata
 - (c) Cerebellum
 - (d) Hypothalamus
4. What is the movement of cytoplasm within a cell called?
 - (a) Diffusion
 - (b) Osmosis
 - (c) Cytoplasmic streaming (Cyclosis)
 - (d) Active transport
5. Which enzyme is deficient in patients with Phenylketonuria (PKU)?
 - (a) Tyrosinase
 - (b) Phenylalanine hydroxylase
 - (c) Amylase
 - (d) Lactase

Physics

6. What is the SI unit of magnetic induction?
- (a) Weber
 - (b) Tesla
 - (c) Henry
 - (d) Gauss
7. What is the formula for the safety speed on a banked road?
- (a) $v = \sqrt{rg \sin \theta}$
 - (b) $v = \sqrt{\frac{rg}{\tan \theta}}$
 - (c) $v = \sqrt{rg \tan \theta}$
 - (d) $v = rg \tan \theta$
8. What is the unit of the L/R ratio?
- (a) Ohm
 - (b) Henry
 - (c) Seconds
 - (d) Coulomb
9. What is the relationship between maximum kinetic energy and wavelength in the photoelectric effect?
- (a) $K.E. \propto \lambda$
 - (b) $K.E. \propto \lambda^2$
 - (c) $K.E. \propto \frac{1}{\lambda}$
 - (d) $K.E. \propto \sqrt{\lambda}$
10. What is the moment of inertia for two specific (solid) spheres about their common diameter?
- (a) $\frac{2}{5}MR^2$
 - (b) $\frac{7}{5}MR^2$
 - (c) $\frac{14}{5}MR^2$
 - (d) $\frac{4}{5}MR^2$