

MHT CET 2026 Biology Memory Based Question Paper PDF

Biology

1. Who coined the term “Root Pressure Theory”?
 - (a) Julius von Sachs
 - (b) Stephen Hales
 - (c) J. Priestley
 - (d) Charles Darwin
2. Where is angiotensinogen secreted from in the human body?
 - (a) Kidney
 - (b) Pancreas
 - (c) Liver
 - (d) Spleen
3. What is the site of perception for photoperiodism induction in plants?
 - (a) Roots
 - (b) Leaves
 - (c) Stem apex
 - (d) Flowers
4. What are the irregular muscular ridges on the inner surface of the heart's ventricles called?
 - (a) Trabeculae septomarginalis
 - (b) Papillary muscles
 - (c) Columnae carneae
 - (d) Chordae tendineae
5. Which codon is known for its dual function as both an initiator codon and the codon for Methionine?
 - (a) UAA
 - (b) AUG
 - (c) UAG
 - (d) UGA
6. Who is credited with the discovery of DNA?
 - (a) James Watson
 - (b) Francis Crick
 - (c) F. Miescher
 - (d) Rosalind Franklin

Physics

7. A particle performs linear S.H.M. with potential energy $U = 0.1\pi^2 x^2$. If the mass is 20 g, what is its frequency?
- (a) 1.581 Hz
(b) 3.162 Hz
(c) 0.790 Hz
(d) 6.283 Hz
8. If a star A has radiant power three times that of the Sun and a temperature of 6000 K while the Sun has temperature 2000 K, what is the ratio of their radii ($R_A : R_{\text{Sun}}$)?
- (a) $1 : \sqrt{27}$
(b) $\sqrt{27} : 1$
(c) $1 : 9$
(d) $1 : 27$
9. What is the frequency of a wave with a speed of 30 m/s if the distance between 11 consecutive crests is 1 m?
- (a) 30 Hz
(b) 300 Hz
(c) 330 Hz
(d) 3 Hz
10. What is the shunt resistance S needed if the galvanometer current I_g is 8% of the total current I ?
- (a) $\frac{2G}{23}$
(b) $\frac{8G}{23}$
(c) $\frac{23G}{2}$
(d) $\frac{G}{23}$

Chemistry

11. Which reagent is used in the Stephen reaction to reduce nitriles to imines?
- (a) LiAlH_4
(b) SnCl_2/HCl
(c) NaBH_4
(d) Zn/HCl
12. What are the monomers used to synthesize Bakelite?
- (a) Ethene and Styrene
(b) Phenol and Formaldehyde
(c) Urea and Formaldehyde
(d) Ethylene glycol and Terephthalic acid
13. Which molecule has a net dipole moment of zero among NH_3 , H_2O , NF_3 , and CCl_4 ?
- (a) NH_3

- (b) H_2O
 - (c) NF_3
 - (d) CCl_4
14. What is the name of the hydrocarbon that yields ethanal and propanone upon reductive ozonolysis?
- (a) But-2-ene
 - (b) 2-Methylbut-2-ene
 - (c) 2-Methylbut-1-ene
 - (d) Pent-2-ene

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