MHT CET 2024 Biology Memory Based Question Paper PDF

Question :

1. Which codon has a dual function?

(A) AUG
(B) UAG
(C) UAA
(D) UGA

2. An angiotensinogen is secreted by _____?

(A) Kidneys
(B) Liver
(C) Pancreas
(D) Lungs

3. Body Fluids and Circulation: The inner surface of the ventricle is thrown into a series of irregular muscular ridges called _____?

(A) Chordae tendineae
(B) Columnae carneae
(C) Papillary muscles
(D) Endocardium

4. What is the site of perception of photoperiod necessary for induction of flowering in plants?

(A) Roots
(B) Stems
(C) Leaves
(D) Flowers

5. Most widely accepted explanation for the ascent of sap in trees is _____?

(A) Root pressure theory
(B) Capillarity theory
(C) Transpiration cohesion theory
(D) Imbibition theory

6. Which animal conserves water through the excretion process?

(A) Camel
(B) Kangaroo rat
(C) Frog
(D) Fish

7. Grapes fruit elongation: Which hormone is used?

(A) Cytokinin
(B) Gibberellin
(C) Auxin
(D) Ethylene

8. What does ICSH stimulate?

(A) Leydig cells for testosterone production
(B) Spermatogenesis directly
(C) Oocyte maturation
(D) Growth hormone secretion

9. What is a key concept in Human Physiology?

(A) Circulation of blood
(B) Neural communication
(C) Hormonal regulation
(D) All of the above

10. Which process is involved in replication of cells?

(A) Mitosis
(B) Meiosis
(C) DNA replication
(D) All of the above

11. What is the main excretory product in the Animal Kingdom?

(A) Ammonia
(B) Urea

(C) Uric acid

(D) Depends on the species

12. What regulates plant growth?

(A) Auxins

(B) Gibberellins

(C) Cytokinins

(D) All of the above

13. A hydrocarbon containing one double bond gave on reductive ozonolysis, ethanol and propanone. What is the name of the hydrocarbon?

(A) Ethene

(B) Propene

(C) But-1-ene

(D) 2-Methylprop-1-ene

14. The pH of a saturated solution of $Ca(OH)_2$ is 9. The solubility product (K_{sp}) of $Ca(OH)_2$ is:

(A) 5.0×10^{-16}

(B) 4.0×10^{-16}

(C) 6.5×10^{-16}

(D) 8.0×10^{-16}

15. A 0.1 molal aqueous solution of glucose boils at 100.16°C. The boiling point of a 0.5 molal aqueous solution of glucose will be:

(A) 100.56°C

(B) 100.40°C

(C) 100.80°C

(D) 101.00°C

16. What is the electronic configuration of Cu?

(A) $[Ar]3d^{10}4s^1$

(B) $[Ar]3d^9 4s^2$

(C) $[Ar]3d^{10}4s^2$

(D) $[Ar]3d^9 4s^1$