

Class: 11
Subject: biology
Topic: Mineral Nutrition
No. of Questions: 20
Duration: 60 Min
Maximum Marks: 60

1. Correct sequence of different phases of growth is
 - A. Cell division → Cell differentiat ion → Cell elongation
 - B. Cell differentiat ion → Cell division → Cell elongation
 - C. Cell elongation → Cell division → Cell differentiat ion
 - D. Cell division → Cell elongation → Cell differentiat ion

Answer: D

2. Hormone found in liquid endosperm of Coconut is
 - A. Gibberellin
 - B. Auxin
 - C. Ethylene
 - D. Cytokinin

Answer: D

3. Seeds placed in water imbibe the same because of
 - A. Exosmosis
 - B. Higher ψ_w
 - C. Lower ψ_w
 - D. Pressure of vacuoles

Answer: C

4. Two cells A and B are contiguous. Cell A has OP = 10 atm, TP = 7 atm and DPD = 3 atm. Cell B has OP = 8 atm, TP = 3 atm and DPD = 5 atm. The result would be
 - A. No movement of water
 - B. Equilibrium between the two
 - C. Movement of water from cell A to B
 - D. Movement of water from cell B to A

Answer: C

Water moves from High OP to low OP or from low DPD to high DPD.

5. Phenyl mercuric acetate (PMA) results in
- A. Reduced photosynthesis
 - B. Reduced transpiration
 - C. Reduced respiration
 - D. Killing of plants

Answer: B

6. In photosynthesis
- A. ATP is formed in light reaction and glucose in dark reaction
 - B. Both ATP and glucose are produced in dark reaction
 - C. Both ATP and glucose are produced in light reaction
 - D. Both ATP and glucose are formed in light and dark

Answer: A

7. Rate of photosynthesis is maximum in
- A. Red and blue light
 - B. Blue and yellow light
 - C. Green light
 - D. White light

Answer: A

8. Wilting appears due to excessive
- A. Respiration
 - B. Photosynthesis
 - C. Absorption
 - D. Transpiration

Answer: D

9. Root hairs occur in the zone of
- A. Cell division
 - B. Cell elongation
 - C. Cell maturation
 - D. Mature cells

Answer: C

10. Cohesion theory of ascent of sap was proposed by
- A. Munich
 - B. Stephen Hales
 - C. Dixon and Joly
 - D. Bose

Answer: C

11. Compensation point is the value of a factor where there is

- A. Beginning of photosynthesis
- B. Little photosynthesis
- C. Photosynthesis equal to rate of respiration
- D. Neither photosynthesis nor respiration

Answer: C

12. For their functioning, cytochromes possess

- A. Fe
- B. Mg
- C. Na
- D. Mn

Answer: A

13. Water is lost in liquid state in some plants through hydathodes. These hydathodes

- A. Remain always open
- B. Do not show any specificity in opening and closing
- C. Remain closed at night
- D. Remain closed during day

Answer: A

14. Green light has a wavelength of

- A. 400-450 nm
- B. 500-580 nm
- C. 660-720 nm
- D. 720-800 nm

Answer: B

15. During light reaction of photosynthesis

- A. Phosphorylation of ADP molecules takes place
- B. Phosphate group is removed from ATP
- C. FADH₂ is formed
- D. All the above

Answer: A

16. Fruit drop is prevented by spraying

- A. Auxin
- B. Ethylene
- C. Gibberellins
- D. Cytokinins

Answer: A

17. Read the statements a and ba.The number of mitochondria in a cell do not correspond to the function of the cell b Mitochondria are common to both plants and animal cells.Choose the correct option

- A. Both the statement a and b are correct
- B. Both the statements a and b are wrong
- C. Statement a is correct, b is wrong
- D. Statement b is correct, a is wrong

Answer: D

18. About 70% of global carbon fixation is found in

- A. Oceans
- B. Forests
- C. Grasslands
- D. Agroecosystems

Answer: A

19. 19.The external solution having less concentration than the cell sap is called

- A. Hypertonic solution
- B. Isotonic solution
- C. Hypotonic solution
- D. Ultratonic solution

Answer: C

20. The process of selective passage across a semipermeable membrane is

- A. Diffusion
- B. Osmosis
- C. Capillarity
- D. Imbibition

Answer: B