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Class: 11
Subject: biology
Topic: Respiration in palants
No. of Questions: 20
Duration: 60 Min
Maximum Marks: 60

1. ADP $\rightarrow$ ATP reaction occurs when two protons (H +) are passed from
   A. Thylakoid to cytosol
   B. Thylakoid to lumen
   C. Lumen of thylakoid.to stroma
   D. Stroma to thylakoid lumen

Answer: C

2. Where do you find cyt b6 -f
   A. Mitochondria
   B. Chloroplasts
   C. Lysosomes
   D. Ribosomes

Answer: B

3. Kranz anatomy is typical of
   A. C4 plants
   B. C3 plants
   C. C2 plants
   D. CAM plants

Answer: A

4. Cut or excise&-leaves remain green for long if induced to root or dipped
   A. Gibberellins
   B. Cytokinins
   C. Auxins
   D. Ethylene

Answer: B

5. Movement of water from roots to aerial parts is
   A. Transpiration
   B. Xylem transporation
   C. Translocation
   D. Evaporation

Answer: C

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6. Constituents of pigment system 1 are located on
    A. Granal thylakoids
    B. Stromal thylakoids
    C. Outer surface of granal and stromal thylakoids
    D. Stroma

Answer: C

7. Light reaction of photosynthesis is also called
    A. Calvin's cycle
    B. Hill's reaction
    C. Blackman's reaction
    D. All the above

Answer: B

8. The hormone responsible for apical dominance is
    A. IAA
    B. GA
    C. ABA
    D. Florigen

Answer: A

9. First stable product of C4 photosynthesis is
    A. Phosphosglyceric acid
    B. Ribulose 1,5-biphosphate
    C. Malic acid
    D. Phosphoglyceraldehyde

Answer: C

10. Oxygen containing carotenoids are
    A. Carotenes
    B. Xanthophylls
    C. Phycobilins
    D. Chlorophyll

Answer: B

11. The regulator which retards ageingl senescence of plant parts is
    A. Cytokinin
    B. Auxin
    C. Gibberellin
    D. Abscisic acid

Answer: A

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12. Movement of auxin is largely
    A. Centripetal
    B. Basipeta
    C. Acropetal
    D. Both B C

Answer: B

13. Maximum photosynthesis happens in
    A. Red light
    B. Green light
    C. Blue light
    D. Blue and red light

Answer: D

14. Water potential in leaf tissue is 'positive' (near zero) during
    A. Low transpiration
    B. Excessive absorption
    C. Excessive transpiration
    D. Guttation

Answer: D

15. Respiration is
    A. Catabolic process that uses carbon dioxide, produces oxygen and converts released energy to ATP
    B. Anabolic process that uses oxygen and carbon dioxide to form ATP
    C. Anabolic process that Uses oxygen, produces carbon dioxide and converts released energy into ATP
    D. act of breaking the chemical bonds in food substances, releasing the energy contained within those bonds.

Answer: D

16. The process of selective passage across a semipermeable membrane is
    A. Diffusion
    B. Osmosis
    C. Capillarity
    D. Imbibition

Answer: B

17. A water-logged soil is physiologically dry because of
    A. Anaerobic conditions
    B. Nonmovement of water capillaries
    C. Increased viscosity of water
    D. Abundance of salts

Answer: A

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18. One of the fundamental features of Kranz anatomy of C4 plants is
    A. Well-developed chloroplasts in bundle sheath cells
    B. Rudimentary chloroplasts in bundle sheath cells
    C. Chloroplasts in epidermal cells
    D. Chloroplasts in vascular tissues

Answer: A

19. Root hairs are
    A. Multicellular
    B. Bicellular
    C. Unicellular
    D. None of the above

Answer: C

20. Force responsible for raising water in 100 ft tall trees is
    A. Transpiration pull
    B. Root pressure
    C. Capillary action
    D. Air pressure

Answer: A

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