Bio tuition wala

Std 11: Biology Chapter: Transport in plants Date: **Neet Series** Total Marks: 80 Marks Time: 1 Hour

Section A

Write the answer of the following questions. [Each carries 1 Mark]

[20]

- 1. Which of the following statements does not apply to reverse osmosis?
 - (A) It is used for water purification
 - (B) In this technique, pressure greater than osmotic pressure is applied to the system
 - (C) It is a passive process
 - (D) It is an active process
- Which one of the following will not directly affect transpiration? 2.
 - (A) Temperature

(B) Light

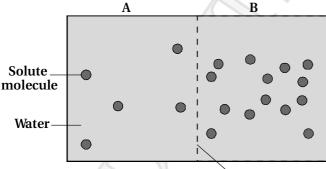
(C) Wind speed

- (D) Chlorophyll content of leaves
- The form of sugar transported through phloem is 3.
 - (A) glucose
- (B) fructose
- (C) sucrose
- (D) ribose

- 4. The process of guttation takes place
 - (A) when the root pressure is high and the rate of transpiration is low.
 - (B) when the root pressure is low and the rate of transpiration is high.
 - (C) when the root pressure equals the rate of transpiration.
 - (D) when the root pressure as well as rate of transpiration are high.
- When a plant undergoes senescence, the nutrients may be 5.
 - (A) accumulated
- (B) bound to cell wall
- (C) translocated
- (D) None of these
- Water potential of pure water at standard temperature is equal to 6.
 - (A) 10

(B) 20

- (C) zero
- (D) None of these
- Based on the figure given below which of the following statements is not correct? 7.



Semi-permeable membrane

- (A) Movement of solvent molecules will take place from chamber A to B.
- (B) Movement of solute will take place from A to B
- (C) Presence of a semipermeable is a pre-requisite for this process to occur.
- (D) The direction and rate of osmosis depends on both the pressure gradient and concentration gradient.
- 8. Choose the correct option mycorrhiza is a symbiotic association of fungus with root system which helps in
 - (a) absorption of water
 - (b) mineral nutrition
 - (c) translocation

| | (d) gaseous exchange | (D) Only (b) | (C) Poth (a) and (b) | (D) Poth (b) and (c) | |
|------------|---|--|--|----------------------|--|
| 9. | (A) Only (a) Match the following and | (B) Only (b) choose the correct option. | (C) Both (a) and (b) | (D) Both (b) and (c) | |
| <i>)</i> • | | | | | |
| | Column-I | Column-II | | | |
| | (a) Leaves | (i) Anti-transpirant | | | |
| | (b) Seed | (ii) Transpiration | | | |
| | (c) Roots | (iii) Negative osmotic pot(iv) Imbibition | enuai | | |
| | (d) Aspirin(e) Plasmolysed cell | ` ' | | | |
| | | <u> </u> | | | |
| | (A) $(a - ii)(b - iv)(c - v)$ | | (B) (a - iii)(b - ii)(c - iv)(d - i)(e - v) (D) (a - v)(b - iv)(c - iii)(d - ii)(e - i) | | |
| | (C) (a - i)(b - ii)(c - iii) | | (D) $(a - v)(b - iv)(c - iii)$ |)(d - 11)(e - 1) | |
| 10. | Mark the mismatched pair. | | | | |
| | (A) Amyloplast – Store protein granule | | | | |
| | (B) Elaioplast – Store (| | | | |
| | (C) Chloroplasts – Contain chlorophyll pigments (D) Chromoplasts – Contain coloured pigments other than chlorophyll | | | | |
| | (D) Chromoplasts –Contain coloured pigments other than chlorophyll | | | | |
| 11. | Opening of stomata is | aided due to | | | |
| | (A) epidermal cells. | | | | |
| | (B) the orientation of the microfibrils in the cell walls of stomata. | | | | |
| | (C) the orientation of the microfibrils in the cell walls of guard cells.(D) the orientation of the microfibrils in the epidermal cells. | | | | |
| 10 | | | | | |
| 12. | Control points, where a plant adjusts the quantity and types of solutes that reach the xylem are (A) Transport proteins of pericycle. (B) Transport proteins of cortex. | | | | |
| | | | (B) Transport proteins of cortex.(D) Transport proteins of xylem vessels. | | |
| 12 | (C) Transport proteins of endodermal cells. (D) Transport proteins of xylem vessels. The element which cannot be remobilised | | | | |
| 13. | | | (C) Co | (D) V | |
| | (A) S | (B) N ₂ | (C) Ca | (D) K | |
| 14. | Bulk flow can be achieved by | | | | |
| | (A) negative hydrostatic pressure gradient like garden house. | | | | |
| | (B) positive hydrostatic pressure gradient.(C) Negative hydrostatic pressure gradient like suction through straw. | | | | |
| | • | c pressure gradient like suc | ction through straw. | | |
| | (D) All of these. | | | | |
| 15. | | ent of a molecule in 50 μr | - | (D) 1.1 | |
| | (A) 2.5 min | (B) 2 hrs | (C) 2.5 sec | (D) 1 hour | |
| 16. | Statement A: Active transport of molecules is an uphill movement. | | | | |
| | Statement B : Simple diffusion is non-selective process. | | | | |
| | | | (B) Both the statements are false (D) Statement P is true but Statement A is false | | |
| | (C) Statement A is true but Statement B is false (D) Statement B is true but Statement A is false | | | | |
| 17. | | rential of pure water is | | (D) 0 | |
| | (A) 100 | (B) -1 | (C) 0 | (D) -2 | |
| 18. | The unit of water pote | | | | |
| | (A) psi | (B) no unit | (C) pascal | (D) mmole per kg | |
| 19. | A : In dorsiventral leaf, the loss of water from lower surface is comparatively much higher than the | | | | |
| | upper surface | | | | |
| | R: The number of stomata (per unit area) are more in lower surface than in upper surface | | | | |

- (A) A and R both are correct and R is correct explanation of A.
- (B) A and R are correct but R is not correct explanation of A.
- (C) A is correct and R is false.
- (D) Both A and R are false.
- 20. Match List-I with List-II:

| List-I | List-II | |
|---------------------|--|--|
| (a) Cohesion | (i) More attraction in liquid phase | |
| (b) Adhesion | (ii) Mutual attraction among water molecules | |
| (c) Surface tension | (iii) Water loss liquid phase | |
| (d) Guttation | (iv) Attraction towards polar surfaces | |

Choose the correct answer from the options given below.

- (a) (b) (c) (d)
- (A) (iii) (i) (iv) (ii)
- (B) (ii) (i) (iv) (iii)
- (C) (ii) (iv) (i) (iii)
- (D) (iv) (iii) (ii) (i)



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