

NEET - C11 - TRANSPORT IN PLANTS

- 1. In which form, does the food transported in plants?**
 - A. Sucrose
 - B. Fructose
 - C. Glucose
 - D. Lactose
- 2. In land plants, the guard cells differ from other epidermal cells in having**
 - A. mitochondria
 - B. endoplasmic reticulum
 - C. chloroplasts
 - D. cytoskeleton
- 3. Whose water potential is less than water potential of root hair during the water absorption by root hair?**
 - A. Gravitational water
 - B. Soil solution
 - C. Pure water
 - D. Vacuolar sap
- 4. Which of the following is appropriate for mass-flow hypothesis?**
 - A. Transpiration pull is responsible for absorption of ions
 - B. Large amount of ions are also absorbed along with the absorption of water
 - C. As suction pressure increases, absorption of water increases and along with water, absorption of ion also increases
 - D. All of the above
- 5. A leaf with more stomata on lower surface belongs to**
 - A. potato type
 - B. oat type
 - C. apple-mulberry type
 - D. Nymphaea type
- 6. In a plant organ, which is covered by penderm and in which the stomata are absent, some gaseous exchange still takes place through**
 - A. aerenchyma
 - B. trichomes
 - C. pneumatophores
 - D. lenticels
- 7. Potometer works on the principle of**
 - A. amount of water absorbed equals the amount transpired
 - B. osmotic pressure
 - C. root pressure
 - D. potential difference between the tip of the tube and that of the plant
- 8. A cell swells up when kept in**
 - A. hypotonic solution
 - B. hypertonic solution
 - C. isotonic solution
 - D. All of these

S.THIYAGARAJAN. M.SC., M.PHIL., B.Ed.,

PH: 9944664846

Magalingapuram, Pollachi.

Kindly Send Me Your Key Answers to Our email id - padasalai.net@gmail.com

16. Which of the following has maximum water potential?

- A. Pure water
- B. 2% sucrose solution
- C. 4% glucose solution
- D. 10% sodium chloride solution

17. Identify the correct statements from the following:

- I. Accumulation of K^+ ions in the guard cells does not require energy.
- II. A high pH favours stomatal opening.
- III. Movement of chloride ions into the guard cells accrues in the response to the electrical differential created by K^+ ions.
- IV. With the entry of several K^+ ions and chloride ions, the water potential of guard cells increases.

- A. I and III
- B. I and II
- C. II and III
- D. III and IV

18. The potential energy of water is referred as

- A. osmotic potential
- B. water potential
- C. pressure potential
- D. gravity potential

19. The epidermal trichomes help in

- A. transpiration and exchange of gases
- B. protection from desiccation
- C. protection and reduction of transpiration
- D. exudes water drops from their tips

20. Loss of liquid water by guttation occurs through

- A. hydathodes
- B. stomata
- C. cuticle
- D. bark

21. Stomatal opening is regulated by

- A. light
- B. temperature
- C. atmospheric humidity
- D. wind

22. The rate of transpiration will be very less in a situation where

- A. ground water is sufficiently available
- B. wind is blowing with a very high velocity
- C. environment is very hot and dry
- D. relative humidity is very high

23. The rupture and fractionation do not usually occur in the water column in vessels/tracheids during the ascent of sap because of

- A. lignified thick walls
- B. cohesion and adhesion
- C. weak gravitational pull
- D. transpiration pull

24. Which of the following statements is correct?

- A. $DPD = OP - WP$
- B. $DPD = OP + WP$
- C. $DPD = WP - OP$
- D. $DPD = TP + OP$

25. Which one of the following is not an antitranspirant?

- A. PMA
- B. BAP
- C. Silicon oil
- D. Low viscosity

NEET - C11 - TRANSPORT IN PLANTS - KEY

1. A	2. C	3. D	4. D	5. A
6. D	7. A	8. A	9. C	10. C
11. B	12. B	13. B	14. A	15. B
16. A	17. C	18. A	19. C	20. A
21. A	22. D	23. B	24. A	25. B

www.Padasalai.Net