

YAKEEN-2022

Transport in plant (Concept Worksheet -2)

Fill in the blanks

1.	Transport ofchannel is always unidirectional
2.	In early spring food move fromto
3.	is organic form of nitrogen which is transported
4.	Direction of food isin plants
5.	type of short distance transport not occur through membrane and
	passive
6.	Entry of mineral inside cell is byandin plants
7.	Cytoplasmic streaming is helped bystructure in cytoplasm
8.	molecule show simple diffusion across membrane
9.	Simple diffusion is directly proportional to
10	Type of transport across membrane destroy gradient
11	type of transport across membrane create gradient
12	and ways by which c channel can be controlled
13	Inhibitor binds on channel at
14	.Type of inhibition shown by channel due to inhibitor (competitive
	or non-competitive)
15	.Number of aquaporins make water channel
16	are located in, And
17	.Saturation shown byandTransport
18	transport in short distance is uphill
19	.NA ⁺ , K ⁺ and glucose move byandard transport across cell
20	.Transport of $O_{2,}CO_{2}$ and $H_{2}O$ occur by
21	.Direction of water due to water potential is
22	.Value of water potential can be
23	.Open beaker with pure water have solute potentialand pressure
	potential equal to

24. When we add solute in open beaker (pure water) than Ψ_s becomean
Ψ_{p}
25. Value of solute potential is always
26. Direction of water according to solute potential isto
27.A solution having –ve solute potential can have zero ψ_w it ψ_p is
28.Cytoplasm mostly has ψ_w value
$29.\Psi_w$ measure in term of
30.Possible value of ψ_p isand
31. For transpiration pull ψ_p is
32andregion of plant have impermeable membrane
33.Shrinkage ofis called plasmolysis
34Type of plasmolysis is called plasmolysis
35type of pressure s lowest in evident plasmolysed cell
36. When water enter into celltype of pressure develop inside cell
37. Direction of water through osmotic pressure is fromtoto
38. Value of DPO of pure water is
39.In plasmolysis water first move fromto beaker
40.Osmotic pressure is equal tobut direction is opposite
41.In R.O. value of ψ_p isand ψ_s is
42. During imbibitionsis required between surface and liquid
43and show maximum imbibitions
44.Out of root and leaf which have highest O.P
45. If hydrophytes shift to mesophytic conditions water absorption



Answer Key

- 1. Xylem
- 2. Roots to buds (leaves)
- 3. Amino acid and related compounds
- 4. Source to sink (any required direction)
- 5. Apoplast
- 6. Passive and active transport
- 7. Cytoplasmic strands
- 8. Substances soluble in lipid (Hydrophobic/polar/lipophilic)
- 9. Concentration gradients / temperature
- 10. Channels (Facilitated diffusion)
- 11. Pumps (Active transport)
- 12. Chemical and electrical signals
- 13. Protein side chain
- 14. Non-competitive
- 15. 8
- 16. Porins, plastids, mitochondria and in some bacteria
- 17. Facilitated diffusion and active transport
- 18. Active
- 19. Channels in facilitated diffusion
- 20. Diffusion
- 21. Higher to lower water potential
- 22. Negative, zero and positive
- 23. Zero and zero
- 24. Negative and zero
- 25. Negative
- 26. Higher to lower
- 27. Equal to Ψ_s with opposite sign (positive)
- 28. Negative
- 29. Pascal
- 30. Positive, zero and negative
- 31. Negative
- 32. Endodermis (casparian strip) and cork layer
- 33. Protoplast
- 34. Evident
- 35. Turgor pressure
- 36. Turgor pressure



- 37. Low to high
- 38. Zero
- 39. Cytoplasm
- 40. Osmotic potential
- 41. Positive, negative
- 42. Affinity
- 43. Agar agar and protein
- 44. Leaf
- 45. Less





Note - If you have any query/issue

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