PG-CET-BOTANY

PRACTICE BITS ON "Transport in plants"-2

31) Potometer is an instrument that measures **[4]**

1) Respiration 2) Growth 3) Osmosis 4) Transpiration

32) Porins are made up of **[2]**

1) Lipoproteins 2) Proteins 3) Glycoproteins 4) Phospholipids

33) Many transplanted seedlings may not survive because **[3]**

1) They do not like the new soil
2) They do not get required mineral salts
3) Most of the root hairs are lost during transplantation
4) The leaves get damaged

34) Loss of water by guttation occurs through **[4]**

1) Cork 2) Stomata 3) Bark 4) Lenticels

35) Mutual attraction between the water molecules is **[1]**

1) Cohesion 2) Adhesion 3) Transpiration 4) Capillarity

36) Ringing/girdling experiments was first performed by **[1]**

1) Hartig 2) Strassburger 3) Sachs 4) J.C. Bose

37) Water potential of a solutions is always **[2]**

1) Zero 2) Less than zero 3) More than zero 4) Unity

38) What is the effect of pressure on water potential? **[2]**

1) Pressure decreases water potential
2) Pressure increases water potential
3) Pressure does not affect water potential
4) None of these

39) The solute potential of pure water is **[3]**

1) Always-ve 2) Always + ve 3) Zero 4) Unity

40) With the increase in turgidity of a cell the solute potential of cell will **[1]**

1) increase 2) Decrease 3) Fluctuate 4) remains unchanged

41) The diffusion of any substance across a membrane also depends on its **[3]**

1) Solubility in proteins 2) Solubility in lipids
3) both 1 & 2 4) None of the above

42) Carrier Proteins in the membrane do not involve in [4]

1) active transport 2) passive transport
3) uphill transport 4) simple diffusion

43) When a cell is placed in pure water. its water potential will [1]

1) Increases 2) Decrease
3) First increase, latter decrease 4) Does not change

44) Concept of Apoplast & Symplast was given by [4]

1) Levitt 2) Dixon 3) Bouling 4) Munch

45) Water potential of pure water and its solution are respectively [4]

1) 0 and 1 2) 0 and0 3) 0 and more than 0 4) 0 and less than 0

46) Solute potential of a solution is always [2]

1) 0 2) <0 3) >0 4) 1

47) With rise in turgidity, wall pressure will [2]

1) Decreases 2) Increase 3) Fluctuate 4) Remain unchanged

48) Epithem is [4]

1) a group of loosely arranged green parenchymatous cells
2) found at the tip of veins
3) associated with guttation
4) All of the above

49) Driving force for upward movement of water is [4]

1) cohesion 2) Adhesion 3) Transpiration pull 4) All of these

50) Diffusion rates are affected by [4]

1) Pressure 2) Temperature 3) Concentration gradient 4) All of the above

51) Which of the following is an active transport during stomatal opening? [1]

1) Influx of K 2) Influx of Cl 3) Efflux of K 4) efflux of H

52) Which phytohormone affects closing of stomata? [4]

1) IAA 2) Gibberellins 3) Cytokinins 4) ABA

53) Which of the following is not related to facilitated diffusion? [2]

1) High selectivity 2) Uphill transport
3) Transport saturation 4) Require carrier proteins

54 “Pressure flow hypothesis” was proposed by [3]

1) Stephen Hales 2) Levitt 3) Munch 4) Blackman

55) In a ring girdled plant **[1]**

1) The shoot dies first 2) The shoot & root die together
3) The root dies first 4) Neither shoot nor root will die

56) Root pressure is maximum when transpiration **[2]**

1) transpiration Is high and absorption is low
2) transpiration Is very low and absorption is high
3) transpiration Is very high and absorption is high
4) transpiration Is very low and absorption is low

57) Osmosis is the movement of water from-----through semi permeable Membrane. **[4]**

1) low solute concentrated solution to high solute concentrated solution
2) high solute potential solution to low solute potential solution
3) high water potential solution to low water solute potential solution
4) All of the above

58) Glucose is not stored in plant cells due to **[1]**

1) it increases osmotic pressure 2) it decreases osmotic pressure
3) it increases turgor pressure 4) it decreases turgor pressure

59) Water potential is lowest for **[2]**

1) Pure water 2) Hypertonic solution
3) Isotonic solution 4) Hypotonic solution

60) Diffusion is essential to plants for **[4]**

1) Photosynthesis 2) Respiration 3) Translocation of food 4) All of these

ALL THE BEST

By

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