## **PG-CET-BOTANY**

## PRACTICE BITS ON "Transport in plants"-I

1) "Father of plant physiology" is 1) J.C. Bose 2) Stephen Hales 3) Peter Mitchell 4) Robert Hill	[2]
<ul><li>2) Root hairs are absent in</li><li>1) Hydrophytes 2) Mycorrhizal roots 3) Epiphytes 4) All of these</li></ul>	[4]
<ul> <li>3) Which transport mechanism does not require membrane proteins?</li> <li>1) Simple diffusion</li> <li>2) Osmosis</li> <li>3) Active transport</li> <li>4) Facilitated diffusion</li> </ul>	[1]
<ul><li>4) Which of the following show higher water potential value?</li><li>1) Epidermis 2) Endodermis 3) Pericycle 4) Xylem</li></ul>	[1]
<ul> <li>5) When living cells are placed in saline solutions</li> <li>1) The cells become turgid</li> <li>2) The cells become flaccid</li> <li>3) There is no change</li> <li>4) Endosmosis takes place</li> </ul>	[2]
6) Na/K pump is associated with 1) Osmosis 2) Imbibition 3) Passive transport 4) Active transport	[4]
7) If both the molecules cross the membrane in the same direction then it is called 1) Uniport 2) Antiport 3) Symport 4) Co-transport	[3]
8) "Store houses of potassium(K) ions" are 1) vacuole 2) guard cells 3) subsidiary cells 4) Epidermal cells	[3]
<ul><li>9) Symplast of water in plants is not related to</li><li>1) Cell wall 2) Vacuole 3) Cytoplasm 4) Cell membrane</li></ul>	[1]
10) Root pressure is measured by 1) Osmometer 2) Manometer 3) Barometer 4) Auxanometer	[2]
11) The movement of water from one xylem vessel member to another i 1) Apoplast 2) Symplast 3) Symport 4) Antiport	s [1]
12) Stomata are widely open in 1) Yellow light 2) Blue light 3) Green light 4) Red light	[4]
13) Guard cells differ from epidermal cells in having 1) Vacuoles 2) Mitochondria 3) Chloroplasts 4) Nucleus	[3]

14)	During guttation, water is lost in the	form of		[3]
	<ol> <li>Dilute solution of sugars</li> <li>Dilute solution of salts and organic substances</li> <li>Pure</li> </ol>			
15)	Flaccid cells kept in hypotonic soluti 1) Plasmolysed 2) Deplasmolysed	_	Turgid	[4]
16)	Water movement against gravity is of 1) Diffusion 2) Osmosis 3) Imbibit	-	piration	[4]
17)	•	west water po scular bundle scular bundle	of roots	[3]
18)	Desalination of water is associated v 1) Osmosis 2) Reverse osmosis		on 4) Diffusion	[2]
19)	Water lost during transpiration is 1) Pure water 3) Rich in dissolved organic solutes	2) Rich in diss 4) None of th		[1]
20)	The space between protoplast and to cell is occupied by the  1) Hypertonic solution 2) Hypothem 2) Cytoplasm 4) Pure	tonic solution		[1]
21)	<ol> <li>Find out the wrong statement</li> <li>Ringing experiments are carried out in dicots only</li> <li>Monocots are not suitable to perform ringing experiments</li> <li>Scoto active stomata are found in CAM &amp; C4 plants</li> <li>Guttation occurs during early morning</li> </ol>			
22)	Which of the following phenomenon  1) Movement of water from soil to ro  2) Movement of water from root hair  3) Movement of water from root xyle  4) Movement of water from root end	oot hair r to root corte em to stem xyl	x lem	[3]
23)	A plasmolysed cell can be deplasmo 1) Isotonic solution 3) Saturated solution	lysed by placi 2) Hypertonic 4) Hypotonic	solution	[4]

24)	A girdle between fruit and leaves re	esults	[3]			
	1) Increases the size of fruit	2) No Change in the size of fruits				
	3) Decreases the size of fruit	4) Change the shape of fruit				
25)	The proteins that use energy to car	ry substances across	[2			
	the cell membrane are called					
	1) Carriers 2) Pumps 3) Channel	s 4) Porins				
26)	Which of the following has low imb	pibing capacity?	[3]			
•	1) starch 2) Cellulose 3) suberin					
<b>27</b> \	Most abundant solute in phloem sa	an ic	[2			
۷,	1) Starch 2) Sucrose 3) Glucose	-	LZ.			
		,				
28)	This plant which is ideal to demons		[4]			
	1) Coconut plant 2) Cucumber 3	j Banana 4 j Baisam				
29)	Bacteria cannot survive in a highly		[4			
	1) Salt inhibits reproduction of bacteria					
	<ul><li>2) They become deplasmolysed</li><li>3) Nutrients in the pickle medium cannot support life</li></ul>					
	4) They become plasmolysed					
30)	When the bark is girdling from stem, which of the		[4]			
	vascular tissue is removed?					
	1) Primary Xylem 2) Pri	•				
	3) Secondary xylem 4) Sec	condary Phloem				

**ALL THE BEST** 

By

D.R