

11<sup>th</sup> STD: Mid Term Test - 2

**BIOLOGY** 

Time: 1 Hr 30 mins / Total Marks: 50

## **BIO - BOTANY**

## NOTE: USE SEPARATE PAPER FOR BOTANY AND ZOOLOGY

15. Explain the theory of potassium transport in stomatal transport.

I.	Choose the correct answer							
1.	in Gymnosperms, the activity of sieve cells are controlled by							
	a. Nearby sieve tube membe	ers.	b. Phloem parenchyma cells					
	c. Nucleus of companion ce	ells.	d. Nucleus of albumino	ous cells.				
2.	Grafting is successful in dic	afting is successful in dicots but not in monocots because the dicots have						
	a. Vascular bundles arrange	ed in a ring	b. Cambium for secondary growth					
	c. Vessels with elements an	ranged end to end	d. Cork cambium					
3.	Isually, the monocotyledons do not increase their girth, because							
	a. They possess actively div	viding cambium	b. They do not possess actively dividing cambium					
	c. Ceases activity of cambium		d. All are correct					
4.	The common bottle cork is	non bottle cork is a product of						
	a. Phellem	b. Phellogen	c. Xylem	d. Vascular cambium				
5.	What type of transpiration is possible in the xerophyte Opuntia?							
	a. Stomatal	b. Lenticular	c. Cuticular	d. All the above				
II.	Answer any 5 of the follow	ving questions:			$[5 \times 2 = 10]$			
6.	Define tissue. Mention the types.							
7.	What are the functions of epidermal tissue system?							
8.	What are trichoblasts?							
9.	What are inter fascicular and intra fascicular cambium?							
10.	0. What is dendrochronology?							
11.	11. What is Imbibition?							
12.	What is DPD?							
III. Answer any 2 of the following questions: $[2 \times 5 = 10]$								
13. Give an account of vascular tissue system?								
14.	14. Write a short note on periderm.							

I.	Choose the correct answer							
1.	The end product of Ornithine cycle is							
	a) Carbon dioxide	b) uric acid	c) urea	d) ammonia				
2.	Podocytes are the cells present on the	he						
	a) Outer wall of Bowman's capsule b) Inner wall of Bowman's capsule		sule					
	c) Neck of nephron		d) Wall glomerular capillaries					
3.	Glomerular filtrate contains	omerular filtrate contains						
	a) Blood without blood cells and proteins		b) Plasma without sugar					
	c) Blood with proteins but without cells		d) Blood without urea					
4.	Muscles are derived from							
	a) ectoderm	b) mesoderm	c) endoderm	d) neuro ectoderm				
5.	Skeletal muscles are attached to the bones by							
	a) tendon	b) ligament	c) pectin	d) fibrin				
II.	Answer any 5 of the following que	estions:		$[5 \times 2 = 10]$				
6.	How is urea formed in the human body?							
7.	Differentiate cortical from medullary nephrons.							
8.	Name the three main hormones that are involved in the regulation of the renal function?							
9.	Name the contractile proteins present in the skeletal muscle.							
10.	10. Which is the only jointless bone in human body?							
11. How does an isometric contraction take place?								
III. Answer any 2 of the following questions: $[2 \times 5 = 10]$								
12.	12. How are the kidneys involved in controlling blood volume? How is the volume of blood in the body related to							
	arterial pressure?							
13. Explain the sliding- filament theory of muscle contraction.								
14.	14. Explain the structure of kidney.							

-----ALL THE BEST-----