Dr. A. Vennila, Principal, Kumbakonam

Thanfavur - District

HYM

HALF YEARLY EXAMINATION - 2024

11 - Std

BIOLOGY

BIO - BOTANY Time: 3.00 Hrs

b) List out the significance of mitosis.

b) Differentiate C3 cycle and C4 cycle.

21.

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Marks: 70

SECTION - I Answer all the questions. $8 \times 1 = 8$ I a) At the time of fertilization In gymnosperm endosperm is formed 1. b) before fertilization c) after fertilization d) along with the development of embryo 2. Match the following. ii i iii iv 1) Cauducous i) Lannea a) iii 2) Deciduous ii) Opuntia İν b) iii ii iv 3) Evergreen iii) Fagaceae c) iii 4) Marcescent iv) Mimusops ii d) Aggregate fruit develops from 3. a) multicarpellary, apocarpous ovary b) multicarpellary, syncarpous ovary c) multicarpellary ovary d) whole inflorescence Identify the correct statements. (i) Taxonomy governs the practices of the classification. (ii) Systematics goverus the practices of classificatin, naming and preservation. b) (i) is wrong and (ii) is correct a) Both (i) and (ii) are correct d) (i) is correct and (ii) is wrong c) Both (i) and (ii) are correct In meiosis crossing over is initiated at 5. d) Zygotene a) Diplotene c) Leptotene b) Pachytene 6. Tyloses arises from all of xylem d) Sclereids a) Parenchyma b) Collenchyma c) Sclerenchyma The compound which links glycolysis and Kreb's cycle is 7. d) Citric acid a) succinic acid b) Pyruvic acid c) Acetyl COA The element which is not remobilized? 8. a) Phosphorous b) Potassium d) Nitrogen c) Calcium SECTION - II $4 \times 2 = 8$ Answer any four questions. II What is actinostele? Give example. 9. Write short notes on phyllotaxy. 10. What are the exceptions to cell theory. 11. Write down the types of RNA. 12. Differentiate - pinus and moras. 13. Define: Respiratory quotient. 14. SECTION - III III Answer any three questions. Q.No. 19 is compulsory. Write any three living features of virus. $3 \times 3 = 9$ 15. Differentiate: Raceme and cyme. 16. What are the importance of diffusion in plant. 17. Write the physiological effect of Auxin. 18. Draw and neatly label the diagram of Bicollateral vascular bundle. 19. **SECTION - IV** $2 \times 5 = 10$ Answer all the questions. IV a) Write the botanical description of Datura metal. (OR) 20.

a) Explain the insectivorous mode of nutrition in angiosperms. (OR)

BIO - ZOOLOGY

SECTION - I

I	Choose the most appropriate answer from the given four alternatives and write				
	the option code and the correspondir	ng answer.	$8 \times 1 = 8$		
1.	Which of the following is correctly matche		3 7 2 - 3		
	a) Physalia -	Portugese man of	f war	5	
	b) Pennatula -	Sea fan			
	c) Adamisia -	Sea pen			
	d) Gorgonia -	Sea anemone			
2.	Which of the following is not involved in blood clotting?				
	a) Fibrin b) Calcium	c) Platelets	d) Bilirubin		
3.	An example for Tautonymy	n	a) Billiabili		
	> - 0	c) Ailurus fulgens	d) Felis demesticus		
4.	Hypersecretion of growth hormone is chil	dren leads to	d) I chi dell'iesticus		
	a) Grave's disease b) Cretinism	c) Tetany	d) Gigantism		
5.	Rod cells are predominant in the	c) return	a) digantism		
	a) Optic nerve b) Blind spot c) Extra forea region d) Iris				
6.	The limbless amphibian is	c) Extra forca regi	on d) Ins		
	a) Rana b) Salamander	c) Icthyophis	d) Hyla		
7.	The tidal volume of a normal person is	c) ictilyopilis	d) Tiyla		
		c) 1100 - 1200 ml	d) 1200ml		
8.	Macrophages exhibit the movement of		a) Flagellar movement		
	b) Ciliary movement c) Muscular i		d) Amoeboid movement		
			d) Amoebola movement		
SECTION - II					
II	Answer any four questions.		4 x 2 =	8	
9.	Define - Thermoacidophiles.				
10.	What are earthworm casts?				
11.	Name the respiratory organs of flatworm, Cockroach and fish.				
12.	Open circulatory system and closed circulatory system - compare.				
13.	Tabulate the function of brain lobes.				
14.	How Jaundice is caused? Write its sympto	oms.			
	SECTION - III				
III	II Answer any three questions. Question No. 19 is compulsory. $3 \times 3 = 9$				
15.	Mention the function of Vasopressin.				
16.	Draw the labelled sketch of kidney.				
17.	Compare white adipose tissue from brown adipose tissue.				
18.	Mention the diseases caused by virus, fungi and bacterias in silkworm.				
19.	Aqueous humour maintains the intra - ocular pressure - Justify.				
		ON - IV			
IV	Answer all the questions. $2 \times 5 = 10$				
20.	Tabulate the differences between chordates and non - chordates. (OR)				
	Explain the origin and conduction of Heart and zBeat.				
21.	List out the various functions of skeletal	•	(OR)		
	Write in detail about economical importar	ice of fishes.			
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