	 V.M.(G.R.R SRI SARADA SAKTHI M	======================================	
	STD: XI	BIOLOGY (BL-9-15,	5,ZL7-12) MARKS-70	
BIO BOTANY			MARKS-35	
І.СНО	OSE THE CORRECT A	ANSWER :	8X1=8	
 In G In G The G What In a f DPI DPI The G DPI The G OPI For e a. For e a. Selec A) Hun Corn Corn 	by mosperms, the activity a. Nearby sieve tube mem c. Nucleus of companion common bottle cork is a p a. Phellem b. Phellogen c is the fate of primary xyl a. It is retained in the cen c. May or may not get cru fully turgid cell D = 10 atm; $OP = 5$ atm; T element which is not remove Phosphorous b. every CO2 molecule enter 2ATP 1 2NADPH b.2 is the powerful grow Ethanol b. ct the correctly matched of nan urine i) Auxin –B n gram oil ii) GA3	of sieve cells are controlled by bers. b. Phloem parenchyn cells. d. Nucleus of albumin product of . Xylem d. Vascular cambium em in a dicot stem showing exten tre of the axis b. It gets crush ished d. It gets surred $\Gamma P = 10$ atm b. DPD = 0 atm; OP P = 10 atm d. DPD = 20 atm; OP pobilized? Potassium c. Calcium ing the C3 cycle, the number of <i>P</i> 2ATP 13NADPH c.3ATP 12NAD wth inhibitor Cytokinins c. ABA me	ma cells ninous cells. ensive secondary growth? ished rounded by primary phloem P = 10 atm; $TP = 10$ atm P = 20 atm; $TP = 10$ atm d. Nitrogen 'ATP & NADPH required DPH d. 3ATP 13NADPH d. Auxin	
 D) Herri D) Herri E) Unri F) Youri II. Ans 9. Why 10.Dist 11. Def 	ring fish iv) Kinitin spern ipe maize v) Auxin A grain ng cotton vi) Zeatin bolls a) A-iii, B-iv, C-v, D-vi, c) A-iii, B-v, C-vi, D-i, E wer any four of the foll the cells of sclerenchyma inguish between hard woo ine : Imbibition.	n ins E-i, F-ii, b) A-v, B-i, C-ii, D-i ,-ii, F-iv, d) A-ii, B-iii, C-v, D- owing : a and tracheids become dead? od and soft wood.	¹⁻ iv, E-vi, F-iii, D-vi, E-iv, F-i 4X2=8	
12. Diff 13. Res 14. Def III. Ar 15. Wh 16. Wri 17.A tin B was 2 18. Wh	ferences between Cyclic I spiratory quotient is zero i fine Richmond Lang effect nswer any three of the f at are sieve tubes ? Expla ite the physiological effect mber merchant bought 2 1 20 years old. Which log o at are the parameters whi	Photophosphorylation and Non-Cy n succulent plants. Why? et. ollowing : in. its of Cytokinins. ogs of wood from a forest & nam f wood will last longer for the me ch control water potential?	Cyclic Photophosphorylation. 3X3=9 med them A & B, The log A was 50 year of herchant? Why?	

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19 .Why is that in certain plants deficiency symptoms appear first in younger parts of the plants while in others, they do so in mature organs?

IV. Answer all the questions :

20.a. Explain sclereids with their types.

OR

b.Write the role of nitrogenase enzyme in nitrogen fixation?

21.a. In Botany class, teacher explains, Synthesis of one glucose requires 30 ATPs in C4 plants and only 18 ATPs in C3plants. The same teacher explains C4 plants are more advantageous than C3 plants. Can you identify the reason for this contradiction?

OR

b. What is the name of alternate way of glucose breakdown? Explain the process involved in it?

BIO- ZOOLOGY I CHOOSE THE CORRECT ANSWER •	Marks -35 8X1=8				
1 Erythroblastosis foetalis is due to the destruction of					
a Foetal RBCs b Foetus suffers from atherosclerosis					
c Foetal WBCs d Foetus suffers from	mianmata				
2 A patient's chart reveals that he has a cardiac output of 7500mL per minute and a stroke volume of 50 ml					
What is his pulse rate (in heats / min)	7500mL per minute and a stroke volume of 50 mL.				
a 50 $b 100$ $c 150$	d 400				
3 Malnighian tubules remove excretory products from	u. 400				
a mouth b oesonbagus c haemolymph	d alimentary canal				
A The region between two successive Z-discs is called a					
a sarcomere b microtubule c myoglobin d actin					
5 During synaptic transmission of nerve impulse neurotransmitter (P) is released from synaptic vesicles by the					
stron of ions (Ω). Choose the correct P and Ω					
a P - Acetylcholine $\Omega - Ca++$ b P - Acetylcholine	holine $\Omega - Na+$				
$a = T C C A D A O N_{C}$					
c. $P = GABA, Q = Na +$ d. $P = Cholinesterase, Q = Ca++$					
6. Examine the diagram of the two cell types A and B given below and select the correct option.					
a. Cell-A is the rod cell found evenly all over retina					
b. Cell-A is the cone cell more concentrated in the fovea centralis					
c. Cell-B is concerned with colour vision in bright light					
d. Cell-A is sensitive to bright light intensities					
7. The maintenance of constant internal environment is referred as					
a. Regulation b. nomeostasis c. co-ordinatio	on d. normonal control				
8. Inland fisheries are					
a. deep sea fishing	b. capturing fishes from sea coast				
c. Raising and capturing fishes in fresh water	d. oil extraction from fish				
II. Answer any four of the following :	4X2=8				
9. Distinguish between open and closed circulation.					
10. What are the components involved in coagulation of blood?					
11. What are Podocytes?					
12. Sam's optometrist tells him that his intraocular pressure is high. What is this condition called and which					
fluid does it involve?					
13. Comment on Acini of thyroid gland.					
14. Name the following:					
1. The largest bee in the colony.					
ii. The kind of flight which the new virgin queen takes alor	ig with the drones out of the hive.				
III. Answer any three of the following :3X3=9					
15. Differentiate protonephridia from metanephridia.					
16. What are the benefits of regular exercise?					

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2X5 = 10

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17. Differentiate between rod and cone cells.

18. Draw and label the parts of L.S. of the eye

19. Growth hormone is important for normal growth. Justify the statement.

IV. Answer all the questions :

2X5 = 10

20. a. Describe the mechanism by which the human heart beat is initiated and controlled.

OR

b. What is ANS? Explain the components of ANS.

21.a. Explain the life cycle of *bombyx mori*.

OR

b. Briefly explain the structure of thyroid gland.