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Tsi11Bio	Tenkasi District		
Common Quarterly Examination - 2023			
27-1	09-2023 Standard 11		
Time Allo	owed: 3.00 Hours BIOLOGY	Maximum Marks: 70	
Note: Ca	andidate should answer Part - I (Bio-Botany)	and Part - II (Bio-Zoology)	
in separate answer sheet.			
	PART - I [BIO-BOTANY]	Marks: 35	
	Section - I		
Note: i)	Answer all the questions.	8×1=8	
 ii) Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer. 			
1)	Which of following represents gametophytic ge	neration in nteridophytes?	
	a) Prothallus b) Thallus c) Cone		
	Which of the following in polycarpic plant?		
	a) Mangifera b) Bambusa c) Musa	a d) Agave	
3)	Sequences of which of the following is used to		
	a) mRNA b) rRNA c) tRNA	d) Hn RNA	
4)	The correct sequence in cell cycle	C C M	
	a) $S - M - G_1 - G_2$ b) $S - M - G_2$	G ₁ - G ₂ - M G ₁ - G ₂ - S	
· E/	c) $G_1 - S - \overline{G_2} - \overline{M}$ d) M - Protoplasm was first observed by	1 2	
3)	a) Purkinje b) Hugo Van Mohl c) Cort	i d) Huxley	
6)	A small, rounded photosynthetic units in thylak	oid	
,	a) quantosomes b) stroma c) gran	a d) Thylakoid lumen	
7)	Find out the wrong pair.		
	a) Coriandrum - Decompound		
	b) Tamarindus - Palmately compound c) Moringa - Tripinnate		
	c) Moringa - Tripinnate d) Delonix - Bipinnate		
8)	Which one is a secondary metabolite?		
,	a) Organic acid b) Alkaloids c) Enzy	rmes d) Amina acid	
	Section - II	42-8	
Answer any four of the following questions: $4\times2=8$			
9)	What is plectostele? Give example.		
10)	What are the characteristic features of leaf? Bring out the significance of Transmission Elec	tron Microscope.	
17)	Draw the structure of Mitochondria and label in	ts parts.	
13)	Write any two difference between plant cell ar	nd animal cell.	
14)	What are the properties of Enzymes?		
Section - III			
Answer	rany three from the following:	3×3=9	
[Questi	ion No. 19 is compulsory] Compare sympodial branching with monopodiar	h branching.	
15)	Differentiate Racemose and Cymose Infloresce	ence.	
17)	Write short notes on Pitcher Plant.		
18)	Write any three economically important plants	of Solanceae (Binomial) and	
	its uses.		
19)	Give an account of G ₀ phase.		
Section - IV 2×5=10			
Answei	r all questions: List the various steps involved in Gram staining		
20)	Write the Botanical description of clitoria terna	atea.	
21)	What is placentation? Explain its types.	(OR)	
	Write the characteristic features of DNA.		

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	PART - II [BIO-ZOOLOGY]	Marks: 35	
Answe	Part - I r all the questions:	8×1=8	
	A group of organisms having similar traits of a rank is	0×1-0	
	a) Species b) Taxon c) Genus	d) Family	
2)	Lateral line sense organs occur in	u) railing	
·	a) Salamander b) Frog c) Water snake	d) Fish	
3)	What type of fibres are found in connective tissue matrix?	u) 1 1511	
	a) Collagen b) Areolar c) Cartilage	d) Tubular	
4)	Assertion (A): Cockroach can survive without a head.	u) (u) u.u.	
	Reason (B) : Cockroach can live for a week wihtout	its head. Due to	
	thier open circulatory system and that fact	that they breathe	
	through little holes on each of their body	segments.	
	a) A is true but R is wrong. b) Both A and R are	e wrong.	
_	c) A is correct and R explains A. d) R is correct but	A is wrong.	
5,	Match Column I with Column II and choose the correct	option:	
	Column II Column II		
	P) Small intestine - i) Largest factory Q) Pancrease - ii) Absorption of water		
	my rissorption of water		
	my carrying electronytic solution		
	S) Colon - iv) Digestion and absorption a) P-iv, Q-iii, R-i, S-ii b) P-iii, Q-ii, R-i,	Civ	
	c) P-iv, Q-iii, R-ii, S-i d) P-ii, Q-iv, R-iii,	5-1V C_i	
6)	Vital capacity is	3-1	
	a) TV+IRV b) TV+ERV c) RV+ERV	d) TV+IRV+ERV	
7)	Erythro blastosis foetalis is due to the destruction of	-,	
	a) Foetal RBCs b) Foetus suffer from athero sclerosis		
	c) Foetal WBCs d) Foetus suffers from mian mate		
8)	The hormone which help in the reabsorption of water in kid	ney tubules is	
	a) Chalecystokinin b) Angiotension - II	•	
	c) Antidiuretic hormone (ADH) d) Pancreozymin		
Part - II			
Answer any four of the following questions: 9) What is the connection between taxonomy and publishing of book 'origin of			
ر ر	species'?	of book forigin of	
10)	Draw and label a nerve cell.	*	
	What are lateral hearts?		
	What is Dental formula?		
13)	State the deficiency disease caused by intake of iron in our	r diet.	
14)			
	Part - III	H38	
	Why do call cockroach a pest? Part - III r any three of the following questions: on No. 19 is compulsory] What are extra mophiles?	14/21C 3×3=9	
	on No. 19 is compulsory]	Langer	
10)	Difference between Protostomian and Deutero stomian. December 1988 Explain Elastic connective tissue.	en kassi Dist	
19)	How is urea formed (Ornithine cycle) in the human body? Define the term 'Dead space'.	~	
13)	Part - IV		
Answer all the questions: 2×5=10			
	Briefly explain the three fundamental distinct feature of cl	hordates with a	
,	neat labelled diagram. (OR)	THE GOLDS WILLIAM	
	Explain the digestion in the small intestine.		
21)	 Compare the events in inspiration and expiration. 		
	(OR)		
	Write note on ECG and what initiates the heart beat.		

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