Virudhunagar District VNR11Bio Common Half Yearly Examination - December 2024 Standard 11 Maximum Marks: 70 **BIOLOGY** Time Allowed: 3.00 Hours Note: Candidate should answer PART I (Bio-Botany) and PART II (Bio-Zoology) in separate answer sheets. Marks: 35 PART - I [BIO-BOTANY] Section - I 8×1=8 Note: i) Answer all the questions. ii) Choose the correct answer and write the option code with the corresponding answer. 1) The compound which links Glycolysis and Kreb cycle is d) Pyruvic acid c) Citric acid b) Succinic acid a) Acetyl CoA 2) Which of the plant group has gametophyte as a dominant phase? d) Gymnosperm b) Pteridophyte c) Bryophyte a) Angiosperm 3) The plant which is used in leprosy and leucoderma b) Indigofera tinctoria a) Psoralea corylifolia d) Clitoria ternatea c) Butea monosperma 4) Who proposed protoplasm as a physical basic of life? c) Hugo Van Mohl d) Huxley b) Purkinje a) Corti 5) The element which is not remobilized c) Calcium d) Nitrogen a) Phosphorous b) Potassium 6) The net charge of Zwitter ion is d) 100 c) negative b) positive a) zero 7) Grafting is successful in dicots but not in monocots because the dicots have a) Vascular bundles arranged in a ring b) Cambium for secondary growth c) Vessels with elements arranged end to end d) Cork cambium 8) Axillary bud modified into thorns c) Chrysanthemum d) Oxalis b) Citrus a) Bambusa Section - II Note: Answer any four of the following. 4×2=8 9) What is plectostele? Give an example. 10) Draw the diagram of stamen and label its parts. 11) Define cell cycle. 12) What is action spectrum? 13) Differentiate wood formed in Pinus from that of Morus. 14) What is known as Richmond Long effect? Section - III Note: Answer any three questions. Question No. 19 is compulsory. 15) Give an account of Go phase. 16) Write down the significance of imbibition. 17) What are Brachysclerids? Give an example. 18) What are Magnetosomes? 19) Differentiate Taxonomy and Systematics. Section - IV 2×5=10 Note: Answer all the questions. 20) Write the differences between sap wood and heart wood. (OR) Explain insectivorous mode of nutrition in angiosperm. 21) Distinguish between Prokaryotes and Eukaryotes. (OR) Give the floral characters of clitoria ternatea.

Kindly Send Me Your Key Answer to Our email id - Padasalai.net@gmail.com

www.Padasalai.Net

www.Trb Tnpsc.Com Marks: 35

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## PART-I

		wer the all questions:		8×1=8	
I.	Ans	wer the all questions:  What taxonomic and gives comprehensions  b) Herbarium	ive information abou	ut a taxon?	
	1)	a) Taxonomic key b) Herbarium	c) Flora	d) Monograph	
	21	Match the following columns and select	the correct option		
	2)	Column I Column II			
		O Devil fich			
	Tar.	그 [10] 그리고 그렇게 나타가 이 사람이 그렇게 하고 있다. 그리고 하는 이 사람이 아름이 그리고 하는 하는 것이 되는 것이 되는 것이다.			
		q) Dentalium ii) Chiton			
		r) Chaetopleura iii) Apple snail			
		s) Octopus iv) Tusk shell			
	3)	The ciliated epithelium lines the	A Call bladdor	d) Trachea	
		a) Skin b) Digestive tract	c) Gall bladder	d) Hached	
	4)	First step in digestion of fat is			
		a) Emulsification	b) Enzyme action		
		c) Absorption by	d) Storage in Adipo	ose tissue	
	5)	When 1500 ml air is in the lungs, it is called			
		a) Vital capacity	b) Tidal volume		
		c) Residual volume	d) Inspiratory reser	ve volume	
	6)	Reason (R) : Red blood cells not ha	ve Nucleus, Mitocho	indria, Ribosome	
	,	and Endoplasmic reticullum.			
		Assertion (A): Large amount of hea	moglobulin presen	t inside the cell	
		which is useful for taking for oxygen.			
		a) (A) is correct and (R) is correct but	(R) (A) is not corre	ctly explain	
		b) (A) is correct and (R) is correct but	(R) explains (A) cor	rectly	
		c) (A) is wrong but (R) is correct	(ity explains (ity es.		
		d) (A) is correct but (P) is wrong			
	_,	d) (A) is correct but (R) is wrong			
	. /)	Identify the wrong match:  a) Bowmans capsule - Glomerular f	Siltoration		
		4)			
		b) DCT - Absorption			
		c) Henle's loop - Concentrati			
			of Na+ and K+ ions		
	8)	Hyper secretion of GH in children leads	to	Park No. 1 March	
		a) Cretinism b) Gigantism	c) Graves disease		
ď.	Ans	wer any four of the followings:		4×2=8	
	9)	Why mule is sterile in nature?			
	10)	What are flame cells?			
	11)	Differentiate white adipose tissue from brown adipose tissue.			
	12)	A persons height is 170 cm. His body weight is 80 kg. Find out BMI and tell			
	<b>-</b>	him whether he is normal or obese.			
	13)	What is sigor mortis?	Aptron. Committee	A LA	
		Define Cretinisum.			
ш		swer any three of the following: 3×3=9			
	15)	Compare closed and opened circulatory system.			
	15)	If a diver ascends from the bottom of the sea to the surface too fast			
	10)	What would encounter at that time?			
	171	Cornea transplant in humans is almost	never rejected. Sta	te the reason.	
	1/)	White the release Contracts in contactor			
	18)	Write the role of Oestrogen in ovulation	nae		
		Write the advantages of Vermicomposti	mys.	2×5=10	
IV.		wer all Questions:		(OR)	
	20)	a) Write down the rules of Nomenclatu	ire.		
		b) Explain the distinct features of Phyl	um Chordata.	a diagram (OD)	
	21)	a) Describe the process of inspiration a	and expiration with	a diagram. (Only	
		b) How is urea formed in the human bo	ouyr		