

Padasalai⁹S Telegram Groups!

(தலைப்பிற்கு கீழே உள்ள லிங்கை கிளிக் செய்து குழுவில் இணையவும்!)

- Padasalai's NEWS Group https://t.me/joinchat/NIfCqVRBNj9hhV4wu6_NqA
- Padasalai's Channel Group https://t.me/padasalaichannel
- Lesson Plan Group https://t.me/joinchat/NIfCqVWwo5iL-21gpzrXLw
- 12th Standard Group https://t.me/Padasalai 12th
- 11th Standard Group https://t.me/Padasalai_11th
- 10th Standard Group https://t.me/Padasalai_10th
- 9th Standard Group https://t.me/Padasalai 9th
- 6th to 8th Standard Group https://t.me/Padasalai_6to8
- 1st to 5th Standard Group https://t.me/Padasalai_1to5
- TET Group https://t.me/Padasalai_TET
- PGTRB Group https://t.me/Padasalai_PGTRB
- TNPSC Group https://t.me/Padasalai_TNPSC

50 50

Ravi home tutions 1 MAEK TEST 1

				Biology	Re	g.No. :	
Exa	am Time: 01:00:00 Hrs						Total Marks :
							50 x 1 =
1)	Identify the Archaebacteriu	ım					
	(a) Acetobacter	(b) Erwinia	(c)	Treponema	(d) Met	hanobacterium	
2)	The correct statement regar	rding Blue green algae is					
	(a) lack of motile (1	b) presence of cellulose in	ı cell	(c) absence of muci	age around th	ne (d) pre	esence of floridean
	structures w	vall		thallus		starch	
3)	Living things are made of						
	(a) Organisms	(b) Atoms		(c) Orga	nns	(d)	Cells
4)	are o	bligate aerobes.					
	(a) Streptococcus	(b) Clostridium	1	(c) Micro	ococcus	(d) E. Coli
5)	Who introduced the Gram	staining method?					
	(a) Bergy (b) (Christian Gram		(c) Ehrenberg		(d) Leder	berg
6)	Indicate the correct stateme	ent:					
	(a) Virion is a circular molec	cule(b) Virion is a phage	injects	to (c) Virion is an in	tact infective	virus particle,	(d) Virion!s
	of ss RNA without a capsid	linear DNA into the ho	ost cell	which is non - repl	icating outsid	le a host cell	discovered by l.W
							Randles
7)	Transfer of DNA from one	bacterium to another is o	called:				
	(a) Conjugation	(b) Transformation		(c) Transduction	on	(d) Binary	fission
8)	Porin is present in the cell	wali of					
) Mosquito		(c) Housefly		(d) Bacter	ia
9)	The bacterial plasma memb	orane is made up of					
	(a) Protein (1				(d) C	erbohydrates	
10)	Plasmids occur in						
		(b) Viruses	(c)	Chloroplast	(d)	Chromosome	
11)	Cup fungus belongs to	` /	()	1	()		
,	(a) zygomycetes	(b) oomycetes		(c) ascomycetes		(d) actinomy	cetes
12)	Which group of fungus is c	•		,			
,	(a) Deuteromycetes	(b) Zygomycet	es	(c) Ascom	vcetes	(d) O	omycetes
13)	Number of ascospores in a	()		(1)	-J	(-) -	,
10)	(a) 2	(b) 4		(c) 6		(d) 8	
14)	Which of following represe		hvtes	. ,		(4)	
,	(a) Prothallus	(b) Thallus.	mytes	(c) Cone	(d)	Rhizophore	
15)	The haploid number of chro	· /	serm i	` '		-	m would be
10)	_	(b) 14	, CIIII I	(c) 42	nomosome i	(d) 28	iii would be
16)	Algae growing in snow are			(6) 42		(d) 20	
10)	(a) Cryophytic	(b) Epiphytic		(c) Terrestr	io1	(d) E	Epizoic
17)			11.4	• /	141	(u) 1	pizoic
1/)	Algae grown on the surface		ned _		i.al	(L)	·-ii-
10\	(a) Cryophytic	(b) Epiphytic		(c) Terrestr	ıaı	(a) E	Epizoic
10)	Match the following	1 Vol					
	A) Unicellular motile R) Unicellular non motile						
	B) Unicellular non - motileC) Colonial motile	- 3.Chalmydomonas					
	D) Colonial non - motile	- 4.Chlorella					
	L, Colomai non - monic						

(a) $A - 3, B - 4, C - 1,$	D-2 (b) $A-4$, $B-3$, $C-2$, D - 1 (c) $A - 1$, $B - 2$, $C - 3$	d) A-4, B-3, C-2, D-1
19) When the root is thick	k and fleshy, but, does not taker	a definite shape, it said to be	
(a) Nodulose root	(b) Tuberous root	(c) Monilliform root	(d) Fasiculated root
20) Example for negative	ely geotropic roots		
(a) Ipomoea, Dahlia	(b) Asparagus, Ruellia	(c) Vitis, Portulaca	(d) Avicennia, Rhizophora
21) Foliar roots are seen in	. , 1		
(a) Bryophyllum	(b) Dendrobium	(c) White cotton	(d) Pandanus
22) Stilt roots are seen in	` /	(-)	(5) - 1.1.1.1.1.1
(a) Zea mays	(b) Delonix regia	(c) Bego	nia (d) Ficus
23) Identify the wrong sta	, ,	(c) Bego.	(u) Tieus
(a) Branches of stem a		e multicallular (c) Stam is no	ositively phototropic(d) Stem bears floral bud
endogenously	hairs (b) Stelli bear	s manuechalai (c) Stem is pe	sstrivery phototropic(u) stem ocars noral out
24) Musa is an example f		(-) -4-1	(4)1
(a) climber	(b) runner	(c) stolon	(d) sucker
	type of stem mod		(1)
(a) stolon	(b) offset	(c) runner	(d) sucker
	re generally called as		
(a) root caps	(b) root stocks	(c) root pockets	(d) root modification
27) In an inflorescence w	there flowers are borne laterally	in an acropetal succession the p	position of the youngest floral bud shall be
(a) Proximal	(b) Distal	(c) Intercalary	(d) Anywhere
28) A true fruit is the one	where		
(a) Only ovary of the	(b) Ovary and calyx of the	(c) Ovary, calyx, and thal	amus of the (d) All floral whorls of the
flower develops into fr	ruit flower develops into the fru	it flower develops into the fr	uit flower develop into fruit:
29) Which of the following	ng is a flowering plant with noc	ules containing filamentous nits	rogen fixing micro-organisms?
(a) Crotalaria juncea	(b) Cycas revoluta	(c) Cicer arietinum	(d) Casuarina equisetifolia
30) Flowers are zygomor	phic in		
(a) Ceropegia	(b) Thevetia	(c) Datura	(d) Solanum
31) Sequences of which of	of the following is used to know	the phylogeny	
(a) mRNA	(b) rRNA	(c) tRNA	(d) Hn RNA
32) If mitotic division is	restricted in G1 phase of the cel	I cycle then the condition is kno	own as
(a) S Phase	(b) G ₂ Phase	(c) M Phase	(d) G _o Phase
33) In S phase of the cell		, ,	, , , <u>, , , , , , , , , , , , , , , , </u>
*	•	nains same (c) Chromosome nur	nber is (d) Amount of DNA is reduced to hal
in each cell	in each cell	increased	in each cell
	s having similar traits of a rank		
(a) Species	(b) Taxon	(c) Genus	(d) Family
• •	cation regardless of its rank is	(-)	(-)
(a) Taxon	(b) Variety	(c) Species	(d) Strain
36) Cladogram considers	•	(c) species	(d) Stain
(a) Physiological and	•	and Phylogenetic (c) Taxonir	nic and systematic (d) None of the above
		and Phylogenetic (c) Taxonii	mic and systematic (d) None of the above
	ng animals has a true coelom?	(*) G	(I) Transit as France
(a) Ascaris	(b) Pheretima	(c) Sycon	(d) Taenia solium
38) The respiratory pigme			
(a) Haemoglobin	(b) Haemocyanin	(c) Oxyhaemoglobin	(d) Haemoerythrin
39) Pneumatic bones are		/ N = 100	(1) 2
(a) Mammalia	(b) Aves	(c) Reptilia	(d) Sponges
40) The ciliated epitheliu			
(a) Skin (b	Digestive tract	(c) Gall bladder	(d) Trachea

41) Prevention of substance	ces from leaking across t	the tissue is provided	by		
(a) Tight junction	(b) Adhering jun	1	(c) Gap junction	(d)	Elastic junction
42) How many abdominal	segments are present in	male and female Co	ckroaches?		·
(a) 10, 10	(b) 9, 10		(c) 8, 10		(d) 9,9
43) Which of the followin	g does not have an open	circulatory system?			
(a) Frog	(b) Earthworm	(c) P	rigeon	(d) Cock	roach
44) Buccopharyngeal resp	piration in frog				
(a) is increased when n	ostrils are (b) Stops whe	n there is pulmonary	(c) is increased w	hen it is	(d) stops when mouth is
closed	respiration		catching fly		opened.
45) Absorption of glycero	l, fatty acids and monogl	lycerides takes place	by		
(a) Lymph vessels with	nin villi (b)	Walls of stomach	(c) Colon	(d) Capil	laries within villi
46) First step in digestion	of fat is				
(a) Emulsification	(b) Enzyme action	(c) Absorption	by lacteals	(d) Storage	e in adipose tissue
47) Asthma is caused due	to				
(a) bleeding in the pleu	ral cavity (b) is	nfection of nose	(c) damage of diaph	ragm	(d) infection of lungs
48) The Oxygen Dissociat	tion Curve is				
(a) sigmoid	(b) straight line	(c) curved	(d) rectang	gular hyperb	ola
49) At the venous end of t	he capillary bed, the osn	notic pressure is			
(a) Greater than the hy	drostatic pressure(b) Resi	ult in net outflow of fl	uids (c) Results in net	absorption	of fluids (d) No change occur
50) A patient's chart revea	ls that he has a cardiac o	output of 7500mL pe	r minute and a stroke	volume of	50 mL. What is his pulse
rate (in beats/min)?					
(a) 50	(b) 100	(c) 1	50	(d)	400
	*******	*****	********	***	

Ravi home tutions 1 MARK TEST 2

			Biology	Reg.No.:			
Ex	am Time: 01:00:00 H	Irs		'	Tota	l Marks	s : 50
1)	Nerium exhibits	phyllotaxy.					
	(a) ternate	(b) whorled	(c) decussate	(d) a	alternate		
2)	Ashwagandha refers	to					
	(a) Datura sp	(b) Withania sp	(c) Atropa	(d)	Capsicum		
3)	Photosynthetic roots	are present in					
	(a) Viscum	(b) Tinospora	(c) Cassytha	(d) Or	abanche		
4)	Which ofthe following	ng is advantageous for the animal	s in locomotion, food capture	e etc.?			
	(a) asymmetrical	(b) radially symmetrical	(c) biradially symmetrical	(d) bila	terally symmetrica	al	
5)		is a catalytic RNA.					
	(a) mRNA		(c) Ribonuclease		(d) rRNA		
6)	arc	e superior among all living things	as they have an additional al	oility of self-cons	sciousness.		
	(a) Animals	(b) Plants	(c) Humans	(d)	Monera		
7)	Which of the follow	ing has open type of circulation?					
	(a) frogs	(b) garden lizard	(c) man	(d) cock	roach		
8)	Sucrose is a						
	(a) Polysaccharide	(b) Disaccharide	(c) Monosaccharide	;	(d) Triglyceride		
9)	Spiral arrangement of	of leaves show vertical rows called	d				
	(a) decussate	(b) bifarious	(c) orthostichies	(d)	distichous		
10)	A branched corymb	is cailed					
	(a) Compound corym	nb ('5) Homogamous he	ead (c) Heterogar	uo is head	(á) Disc flo	rets	
11)	Parallel venation is t	he characteristic feature of					
	(a) angiosperms	(b) gymnesperms	(c) dico	(b) sis	mono cots		
12)) Mostly perennial her	rbs persisting by means of a symp	odial rhizome in				
	(a) Liliaceae	(b) Polygonatum	(c)	Bulb	(d) Corm		
13))	are obligate aerobes.					
	(a) Streptococcus	(b) Clostridium	(c) Microcoo	ccus	(d) E. Coli		
14)	Palmately parallel di	ivergent venation is seen in	·				
	(a) Carica papaya	(b) Borassusflabellifer	(c) Zizyph	us (d)	Cinnamomum		
15))	_are also known as metachromat	ic granules.				
	(a) Sulphur granules	(b) Nucleus	(c) Pore complex	(d) Perino	uclear space		
16)	What is the fruit in F	Petunia?					
	(a) Didynamous	(b) Berry	(c) Capsule	(d) Endosperi	nous		
17)) What is the name of	Lily family?					
	(a) Liliaceae	(b) Polygonatum	(c)	Bulb	(d) Corm		
18))	protects the end of the chromos	omes from damage				
	(a) Satellite	(b) Kinetochore	(c) Primary constriction		(d) Telomere		
19)	What is the seed of S	Solanaceae?					
	(a) Didynamous	(b) Berry	(c) Capsule	(d) Endosperi	nous		
20))i	is an important unit of cell which	control II activities of the cel	1.			
	(a) Sulphur granules	(b) Nucleus	(c) Pore complex	(d) Perin	uclear space		
21)	Indicate a macromol	ecule:					
	(a) Amino acid	(b) Protein	(c) Nucleotide	((d) Glucose		
22)) Which is not a pyrin	nidine base?					

	(a) Cytosine	(b) Uracil	(c) Guanine	(d) Thymine
23)	In Greek, 'taxis' means_			
	(a) crowding	(b) spreading	(c) arrangement	(d) attachment
24)	at the co	entre of the head are tabular and b	isexual.	
	(a) Compound corymb	(b) Homogamous head	(c) Heterogamous h	ead (d) Disc florets
25)	Mad cow disease is caus	ed by		
	(a) Prions	(b) Virion	(c) Viroid	(d) Phage
26)	Source of illumination for	or image formation in dark field m	nicroscope is:	
	(a) Electron	(b) ultra violet light	(c) X- rays	(d) Visible light
27)	The word cell was first u	sed by:		· ·
	(a) Robert brown	(b) Robert Hooke	(c) Zemike	(d) Robert schwann
28)	Give an example for foli	ar buds .	•	
	(a) Agave	(b) Bryophyllum	(c) Citrus	(d) Duranta
29)	()	genetic material replicated during	` '	· · · · · · · · · · · · · · · · · · ·
	_	o) Once (c) Four times		of the above
30)	Prickles are seen in	,	(1)	
/	(a) Solanum tuberosum	(b) Solanum xanthocarpum	(c) Solanum nigrum	(d) Solanum trilobatum
31)		flowers are zygomorphic.	() 5	、
,	(a) Physalis	(b) Schizanthus	(c) Salpiglossis	(d) Capsicum
32)	Idea of cell theory was fi	` '	(•) Suipigiossis	(4) (4)
,	(a) Matthias Schleiden	(b) Theodor schwann	(c) H.J. Dutrochet	(d) Rudolf Virchow
33)	In the plant cell, cytokin	` '	(-)	
,	(a) Separation of the	(b) Separation of the cytoplas	m (c) Separation of the	(cl) Following of cytoplasm from two
	` '	ery throughout the equatorial plans	` ′	e to side at right angles to the piane of
	to central region.	simultaneously.	its periphery	spin ile pole
34)	Sum total of constructive	reactions is called as		
		(b) Catabelism	(c) Metabolism	(d) Embelism
35)	Which is not a class of C			
	(a) Lycopodia	(b) Cycadopsida	(c) Coniferopsida	(d) Gnetopsida
36)	More than 6 tepals are se	een inof Liliaceae.		. ,
	(a) Paris	(b) Allium	(c) Gloriosa	(d) Scilla
37)	Which of them has Haus	` '		、 /
	(a) Cuscuta		c) Tinospora	(d) Avecinia
38)				not follow cytokinesis then it would
	result in:	• .	Č	•
	(a) Cells with abnormal s	mall (b) Ensuring genetic homog	geneity (c) A cell with a single	e large (d) A cell with two or more
	nuclei	of cell	nucleus	nuclei
39)	The number of sugar uni	ts present in oligosaccharides:		
	(a) 14 to 15	(b) 6 to 8	(c) 2 to 10	(d) 11 to 12
40)	Match the following.			
	A) Malic acid	i) Mimosa pudica	,	
	B)Tannins	ii) Apple		
	C) Raphide	iii)Dandelionstem	1	
	D) Heavy metals	iv) Dieffenbachia		
	E) Latex	v) Mustard		
	(a) A - i), B - ii), ·C - iii),	D - iv), (b) A - v), B - iv), C - iii),	D - ii),(c) A - v), B - i), C - iii),	D - iv), (d) A - li), B - i), C - iv), D -v),
	E - v)	E - i)	E - ii)	E - iii)

41) Coralloid roots of cycas have symbiotic association with___

www.Padasalai.Net

www.TrbTnpsc.com

	(a) Blue green algae	(b) Mycorrhiza		(c)	Euglena		(d)	Rhizobium
42)	Phase contrast microsc	cope was invented by:						
	(a) Zemike	(b) Robert brown	(c)	Sigmondy		(d)	Rober	t hooke
43)	Pinus roots are in syml	biotic relationship with						
	(a) Blue green algae	(b) Mycorrhiza		(c)	Euglena		(d)	Rhizobium
44)	Detection of changes is	n their living place by organisms is	called					
	(a) Interactions	(b) Consciousness		(c) Autoti	ropic		(d) M	Ieterotropic
45)	type of i	nflorescence exhibits single kind o	f florets	s.				
	(a) Compound corymb	(b) Homogamous head		(c) He	terogamous l	nead		(d) Disc florets
46)	The inflorescence poss	sesses both types of florets		·				
	(a) Compound corymb	(b) Homogamous head		(c) He	terogamous l	nead		(d) Disc florets
47)	Assertion (A): Dead sp	pace is not involved in gaseous exc	hange.					
	Reason (R): Some of the	he inspired air never reaches the ga	s excha	inge areas b	out fills the r	espirato	ory pa	ssages where exchange of
	gases does not occur. T	This air is called dead space.						
	(a) (R) is correct but (A	A) is wrong						
	(b) Both (A) and (R) a	re wrong						
	(c) (A) is correct but (I	R) is wrong						
	(d) (A) is correct and (R) explains (A)						
48)	Assertion (A): The Pro	karyotes which have the ability to	grow in	extreme co	ondition.			
	Reason (R): Prokaryot	es can grow in volcano vents, hot s	prings	and polar ic	e caps, hence	ce are c	alled	extremophites. They are
	capable of synthesizing	g their food without sunlight and or	xygen b	y utilizing l	hydrogen su	lphide	and of	ther chemicals from the
	volconic vents.							
	(a) Both (A) and (R) are	re wrong						
	(b) (A) is correct and (R) explains (A)						
	(c) (A) is wrong and (I	R) is correct						
	(d) (R) is wrong and (A	A) is correct						
49)	` /	aches can survive without a head.						
		ach can live for a week without its l		ue to their o	open circula	tory sys	stem,	and the fact that they
	· ·	oles on each of their body segment	ts.					
	(a) (A) is correct but (I	,						
	(b) Both (A) and (R) as	_						
	(c) (A) is correct and (, · · · · · · · · · · · · · · · · · · ·						
	(d) (R) is correct but (A	,						
50)	` ′	uke is hermaphrodite or monoecion						
	` ´	ma is commonly called hydatid wo	rm.					
	(a) Both (A) and (R) and							
		rect but (R) is not a correct explana-	ation of	the (A)				
	(c) (A) is correct, (R) is	-						
	(d) Both (A) and (R) as	re wrong						

Send Your Questions and Answers to Our Email Id - padasalai.net@gmail.com

RAVI MATHS TUITION CENTER, NEAR VILLIVAKKAM RLY STATION, CHENNAI – 82. WHATSAPP - 8056206308

BOTANY MODEL 1

	n:1		Reg.No.:	
Eve	Biol Exam Time : 01:30:00 Hrs	ogy	1005.110.	Total Marks : 35
EX	Exam Time: 01:50:00 rifs			$8 \times 1 = 8$
1)	Identify the correctly matched pair			6 X 1 – 6
1)	(a) Actinomycete - Late blight (b) Mycoplasma - Lumpy ja	w (c) Bacteria - Cro	wyn gall (d) Fungi	- Sandal spike
2)		w (c) Bacteria - Cro	wii gaii (a) i uiigi	- bandar spike
2)	(a) At the time of fertilization. (b) Before fertilization. (c)	After fertilization (d) Al	ong with the developme	ent of embryo
3)		thei fertilization. (d) Ai	iong with the developme	ant of emoryo.
3)	(a) Foliar bud, apical bud (b) Foliar bud, cauline bud	(c) Cauline bud, apical bu	ıd (d) Cauline bı	ıd foliar bud
4)	0	(c) Caumic oud, apicar ou	id (d) Caumic of	ia, ionar oud
7)		Ovary, calyx, and thalamu	us of the (d) All flore	al whorls of the
		wer develops into the fruit	` '	op into fruit:
5)	~	ver develops into the fruit	nower devel	op into iruit.
٥,	(a) Ceropegia (b) Thevetia	(c) Datura	(d) Solanum	
6)		(e) Buturu	(u) Sciulium	
0)	Column I Column II			
	A Thylakoids 1. Disc-shaped sacs in Golgi apparatus			
	B.Cristae 2. Condensed structure of DNA			
	C.Cisternae 3. Flat membranous sacs in stroma			
	D Chromatin 4. Infoldings in mitochondria			
	(a) (b)		$\left(\begin{array}{c} (d) \end{array} \right)$	
	ABCD	ABCD	ABCD	
	3 4 2 1	3 4 1 2	3 1 4 2	
7)		LIE		
.,		e) Higher plants	(d) All living organis	ms
8)	· · · · · · · · · · · · · · · · · · ·		() 8 8	
-,	(a) Vascular bundles arranged in a (b) Cambium for secondary		ments arranged end to	(d) Cork
	ring growth	end	8	cambium
AN	ANSWER 4			$4 \times 2 = 8$
9)	9) Why do farmers plant leguminous crops in crop rotations/mixe	ed cropping?		
	(0) Do you agree with the statement 'Bryophytes I need water for		r answer.	
	11) Compare pinnate unicostate and palmate multicostate venation			
	12) Write any three significance of mitosis.			
	13) List out the non-photosynthetic parts of a plant that needs a sur	nnly of sucrose?		
	14) When there is plenty of light and the higher concentration of C		does the plant undergo	o? Analyse the
,	reasons.	2, what kind of pathway	does the plant anderg.	or rimary se the
AN	ANSWER 3			$3 \times 3 = 9$
	15) How symbiotic relationship is executed in mycorrhiza?			3 11 3
	16) Compare the anatomical features between Dicots & Monocots			
	17) Make a tabular column showing types of terrestrial plants and		station with examples	
	(8) Write systematic position of liliaceae based of Bentham and H	_	amon with examples	
	(9) Draw the Structure of Peroxisome's.	ookei Ciassiiicauoii!		
				$2 \times 5 = 10$
AII	ANSWER ALL			$2 \times 3 - 10$

- 20) Give a general account on lichens.
- 21) Differentiate cytokinesis in plant cells and animal cells.
- 22) Explain sclereids with their types.
- 23) A transverse section of the trunk of a tree shows concentric rings which are known as growth rings. How are these rings formed? What is the significance of these rings?

FOR ANSWERS VIEW MY YOUTUBE CHANNEL NAME - SR MATHS OR WHATSAPP - 8056206308 FOR LINK

Padasalai

RAVI MATHS TUITION CENTER, NEAR VILLIVAKKAM RLY STATION, CHENNAI – 82. WHATSAPP - 8056206308

ZOOLOGY MODEL 1

11th Standard

		Biology	Reg.No.:		
Exa	am Time : 01:30:00 Hrs	6,7		Total	Marks : 35
					$8 \times 1 = 8$
1)	A living organism is differentiated from non-livin	ng structure based on			
	(a) Reproduction (b) Growth	(c) Metabolism	(d) Mov	rement	
2)	The symmetry exhibited in cnidarians is				
	(a) Radial (b) Bilateral (c)	Pentamerous radial	(d) Asymme	trical	
3)	The main function of the cuboidal epithelium is				
	(a) Protection (b) Secretion	(c) Absorption	(d) Both (b) and	(c)	
4)	The clitellum is a distinct part in the body of earth	worm Lampito mauritii, it is found i	n?		
	(a) Segments 13 - 14 (b) Segments 14 -	17 (c) Segments 12 - 13	(d) Segr	ments 14 - 16	
5)	Choose the incorrect sentence from the following:				
	(a) Bile juice (b) Chyme is a digestive acidic				the
-	emulsifies the fat. food in the stomach.	fatty acid and glycerol.	secretion of pa	ncreatic juice.	
6)	Breathing is controlled by				
5 \	(a) cerebrum (b) medulla oblongata	(c) cerebe	ellum	(d) pons	
7)	What is the function of lymph?	() D' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	(1) D. D. DDG	i impo:	
	(a) Transport of O ₂ into (b) Transport of CO ₂ in brain lungs	nto (c) Bring interstitial fluid in blood	(d) Bring RBC	and WBC in	lymph
8)			nocle		
0)	Concentration of urine depends upon which part of (a) Bewman's capsule (b) Length of Henle's loc		millaries arisino fro	m clomerulus	
ΑN	SWER 4	op (c) n.c.n. (d) Network of the	ipinaries arising fro	in gio neraras	$4 \times 2 = 8$
	Differentiate between probiotics and pathogenic b	acteria			1 1 2 0
	Why are spongin and spicules important to a spon				
	Some epithelia are pseudostratified. What does thi				
	What characteristics are used to identify the earthy				
	Why are villi present in the intestine and not in the				
	Name the respiratory organs of flatworm, earthwo				
	SWER 3	,, F ,			$3 \times 3 = 9$
	List any five salient features of the family Felidae.				
	Compare Schizocoelom with enterocoelom.				
	Differentiate between elastic fibres and elastic con	nnective tissue.			
	Write the types of respiration seen in frog.				
	Bile juice contains no digestive enzymes, yet it is	important for digestion. Why?			
	SWER 2				$2 \times 5 = 10$
20)	What is the role of Charles Darwin in relation to c	concept of species			
21)	Write the classification of connective tissue and th	neir functions.			
22)	How respiration takes place in cockroach?				
23)	Diffusion of gases occurs in the alveolar region on	nly and not in any other part of the re	espiratory system.	Discuss	
	<u> </u>	· •			

Send Your Questions and Answers to Our Email Id - padasalai.net@gmail.com

RAVI MATHS TUITION CENTER, NEAR VILLIVAKKAM RLY STATION, CHENNAI – 82. WHATSAPP - 8056206308

BOTANY MODEL 2

11th Standard

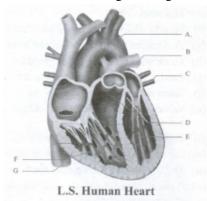
			Biology	•	Reg.No. :		
Exam Tim	ne: 01:30:00 Hrs				•	Total	Marks: 35
							$8 \times 1 = 8$
1) Basidi	iomycetes do not possess						
	•	•	(c) Dolipor	re septum	(d) Lack sexua	l reproduction	
	rial cell wall contains						
–	ptidoglycan	(b) glu	icose	(c) flagellin	1	(d) chitin	
	liate leaf is found in						
(a) Pe	` ´	`	e) Royal palm		(d) Oil	palm	
	species is the basic u						
	avis and Heywood	(b) Sim	npson	(c) carolus Linnae	eus	(d) Stebbins	
	escence of spikes in						
(a) Ru		(b) Similax		(c) Yucca		(d) Aloe	
	erm protoplasm was coine						
	Purkinje	(b) Mohl		(c) Schultze		(d) Felix	
7)	centra					/ h ~	
	lyoxysome	(b) Microbodies		(c) Sphaerosome		(d) Centrioles	
_	and other microbes synth				(I) P.	. 1 12	
(a) W	ater (t) Hydrogen	(c) Orga	nic compounds		(d) Prirnary me	etabolites	$4 \times 2 = 8$
0) Haw	la livina thinas answ?						$4 \times 2 = 8$
	to living things grow?						
	some eminent algologists						
	are geophytes?						
	on the types of special int	lorescence.					
	e Taxonomy.						
14) Name	the two kinds of electron	microscopes					2 2 0
15) D : G	1' (" 1 ' 1	1 'C" (' A 11		5 11 5			$3 \times 3 = 9$
•	y discuss on five kingdon		a note on mer	its and demerits.			
	ss the process of reproduc		. 1 0				
	are the three types of sex	_	_				
-	in the different types of p		mple.				
	guish between prokaryote	•	_				
20) Expla	in the insectivorous mode	of nutrition in angi	osperms?				• • •
21) ***		11 5					$2 \times 5 = 10$
	ut some plant diseases car	•					
	the similarities and differ	ences between					
	icennia and Trapa.						
	anyan and Silk cotton.						
	usiform and Napiform roo						
	the floral characters of Cl						
24) Briefl	y outline the classification	n of enzymes.					

RAVI MATHS TUITION CENTER, NEAR VILLIVAKKAM RLY STATION, CHENNAI – 82. WHATSAPP - 8056206308

ZOOLOGY MODEL 2

		Biology	Re	eg.No. :	
Ex	am Time: 01:30:00 Hrs				Total Marks : 35
					$8 \times 1 = 8$
1)	The word Taxonomy was coined by	·			
	(a) Linnaeus (b) Candolle	(c)	Aristotle	(d) John F	Ray
2)	Choose the correct statement with regard to SI	onges.			
	i) They have a opening called spongocoel.				
	ii) They reproduce asexually by gemma forma	tion.			
	iii) Nutrition is intracellular.				
	iv) Canal system is present				
	(a) ii & iii (b) iii & iv	(c) i only	(d) All t	he above	
3)	Microvilli and Goblet cells are the modification	ons of			
	(a) cuboidal epithelium (b) columnar e	pithelium (c)	squamous epithelium	(d) cili	ated epithelium
4)	helps in digestion in cockro	ach.			
	(a) Malpighian tubules	(b) Hepatic caecae	(c) R	ectum	(d) Crop
5)	Sphincter of Oddi is seen between				
	(a) ileum and jejunum (b) small intestine and	large intestine (c)	bile duct and duodenum	(d) pancreat	tic duct and bile duct
6)	Painful respiration is called				
	(a) Dysprioea (b) Narcosis	(c) Hypoxia	(d) Decompression	on sickness.	
7)	Choose the wrong statement:				
	(a) RBC are (b) There are about 5-5.5	million RBC in 1 (e)	The RBC's are devoid of	$f \mid $	(d) Liver is the
	biconcave in shape cubic min of blood.	M	itochondria, Ribsosomes e	tc	graveyard of RBC
8)	The wreter, blood vessels enter the kidney thro	ugt			
	(a) Hilum (b) Renal columns of Berti		(c) Hilus	(d) Renal	pelvis
Aì	NSWER 4				$6 \times 2 = 12$
9)	Why mule is sterile in nature?				
10)) What are the four characteristics common to n	nost animals			
11)	Differentiate white adipose tissue from brown	adipose tissue.			
) What are earthworm casts?	1			
ĺ	Name the enzyme that catalyses the bicarbona	te formation in RBC	S.		
	Differentiate cortical from medullary nephrons				
	NSWER 3				$5 \times 3 = 15$
	Concept Mapping - Use the following terms to	o create a concept ma	on that shows the major of	characteristic f	
,	nematode: Roundworms, pseudocoelomates, o	•	-		catares of the phytain
16	Name any four important functions of epitheli	_	_		vemnlifies each
10,	function.	ar dissue and provide	at least one example of	a tissue that ex	comprimes each
17		maissaa in aantlasssama			
	Differentiate between peristomium and prosto			1 :	
	List the chemical changes that starch molecule		time it reaches the small	i intestine.	
) Why is pneumonia considered a dangerous dis	sease?			
	NSWER 2				$4 \times 5 = 20$
	What are the rules of Nomenclature?				
21	Sketch a flow chart to show the path way of air	r flow during respira	ition.		

22) Name and Label the given diagrams to show A, B, C, D, E, F, and G



23) What is the function of antidiuretic hormone? Where is it produced and what stimuli increases or decreases its secretion?

Padasalai

RAVI MATHS TUITION CENTER, NEAR VILLIVAKKAM RLY STATION, CHENNAI – 82. WHATSAPP - 8056206308

BOTANY MODEL 3

		Biology	Reg	g.No. :			
Ex	xam Time : 01:30:00 Hrs					Tota	al Marks : 35
							$8 \times 1 = 8$
1)	Consider the following statements:						
	In spring season vascular cambium						
	i. is less active.						
	ii. produces a large number of xylary elements.						
	iii. forms vessels with wide cavities of these						
	(a) (i) is correct but (ii) and (iii) (b) (i) is not correct b are not correct (iii) are correct		i) and (ii) are correct but correct	(iii)(d) (i) (iii) is c		are no	t correct but
2)	The wood formed in spring season in called						
	(a) Hard wood (b) Soft wood	(c) Early wo	ood (d) N	on porous v	wood		
3)	In a fully turgid cell						
	(a) $DPD = 10 \text{ atm}; OP = 5$ (b) $DPD = 0 \text{ atm}; OP$	= 10 atm; (c) 1	OPD = 0 atm; $OP = 5$ atm	; (d) DP	D = 20 a	ıtm; O	P = 20 atm;
	atm; $TP = 10$ atm $TP = 10$ atm	TP =	10 atm	TP = 10	atm		
4)	Which of the following physical force is responsible f	for ascent of sap	?				
	(a) Imbibition (b) Capillary force (c)	Transpiration po	all and cohesion	(d) Roo	t press	ure
5)							
	1. Die back disease of citrus (i) Mo						
	2. Whip tail disease (ii) Zn						
	3. Brown heart of turnip (iii) Cu						
	4. Little leaf (iv) B						
	(a) 1(iii) 2 (ii) 3 (iv) 4 (i) (b) 1 (iii) 2 (i) 3 (iv) 4	(ii) (c) 1	(i) 2 (iii) 3 (ii) 4 (iv)	(d) 1 ((iii) 2 (iv	1) 3 (ii)) 4 (i)
6)	8	-	•				
	Reason (R): Oxygen-evolving complex of PS I locar	•	•				
	(a) Both Assertion and Reason (b) Assertion is True a					rtion a	ınd Reason
_`	are True. is False.	is Fa		are Fal	se.		
7)	, 1		± •				
0)	(a) 12 (b) 13	(c)	14	(d) 15	T.		
8)	8				/ fb =		
	(a) Formative phase of the cells (b) In elongation retains the capability of cell division. development of ce takes place.	_	(c) In maturation phase and differentiation take				ration phase, w further.
ΔΝ	NSWER 4						$4 \times 2 = 8$
	In which season the vessels of angiosperms are large	r in size why?					712
	D) List out the non-photosynthetic parts of a plant that r		f sucrosa?				
	1) Write the role of nitrogenase enzyme in nitrogen fixa		1 sucrose:				
	•		-4 1-i 1 - C41 1	4114		-9 4	. 1 41
12,	2) When there is plenty of light and the higher concentr reasons.	ation of O_2 , wh	at kind of pathway does	the plant	undergo)? Ana	tiyse the
13)	3) Respiratory quotient is zero in succulent plants. Why	7?					
14)	4) What are the parameters used to measure growth of p	olants?					
	NSWER 3						$3 \times 3 = 9$
15)	5) A timber merchant bought 2 logs of wood from a for		em A & B, The log A w	as 50 year	old & I	B was	20 years
	old. Which log of wood will last longer for the mercl	hant? Why?					

- 16) The nitrogen is present in the atmosphere in huge amount but higher plants fail to utilize it. Why?
- 17) What are enzymes involved in phosphorylation and dephosphorylation reactions in EMP pathway?
- 18) What is plasticity?

ANSWER 2 $2 \times 5 = 10$

- 19) A transverse section of the trunk of a tree shows concentric rings which are known as growth rings. How are these rings formed? What is the significance of these rings?
- 20) An artificial cell made of selectively permeable membrane immersed in a beaker (in the figure). Read the values and answer the following questions?



- a. Draw an arrow to indicate the direction of water movement.
- b. Is the solution outside the cell isotonic, hypotonic or hypertonic?
- c. Is the cell isotonic, hypotonic or hypertonic?
- d. Will the cell become more flaccid, more turgid or stay in original size?
- e. With reference to artificial cell state, the process is endosmosis or exosmosis? Give reasons
- 21) Explain Cytochrome pump theory?
- 22) Explain Chemiosmotic theory.



Ravi home tutions **ZOOLOGY MODEL 3**

11th Standard

		Biology	Reg.No. :	
Exam Time: 01:30:00 Hrs				Total Marks: 35
				$8 \times 1 = 8$
1) Peyer's patches are seen				
(a) mouth	(b) stomach	(c) ileum	(d) duodenum	
2) In humans, digestion is				
(a) Intercellular	(b) Intracellular	(c) Extracellular	(d) Both A and E	}
3) Insects respire through				
(a) body surface	(b) trachea	a (c) gills	(d) book lungs	
4) Vocal cords occur in				
(a) Pharynx	(b) Larynx	(c) Glottis	(d) Bronchial tube	
5) Ventricular depolarisation		in a ECG.		
(a) ST segment	(b) T wave	(c) QRS complex	(d) PQ interval	
6) What P indicates in EC				
(a) End of atrium systole	e (b) Starting of atrium sy	vstole (c) End of ventricle	systole (d) Starting of ven	tricle systole
· · · · · · · · · · · · · · · · · · ·	pairs of thoracic nerves.			
(a) 8	(b) 5	(c) 1	(d) 12	
8) Facial nerve is a				
(a) Sensory	(b) Mixed	(c) Motor	(d) Efferent	
ANSWER 4				$6 \times 2 = 12$
9) What is EMI?				
10) Define respiration.				
11) What are basophils?				
12) Which myofilament has	s the binding sites for calcius	m?		
13) What is the significance	e of vitamin A in vision?			
14) What is swarming in lac	c culture?			
ANSWER 3				$5 \times 3 = 15$
15) What is lymph? Write is	ts function.			
16) When a molecule or ion	is reabsorbed from the lum	en of the nephron, where doe	s it go? If a solute is filtered a	nd not
reabsorbed from the tub	oule, where does it go?			
17) How is the process of m	nicturition altered by toilet tr	raining?		
18) How does an isotonic co	ontraction take place?			
19) The choroid plexus secr	retes cerebrospinal fluid. Lis	t the function of it.		
ANSWER 2				$4 \times 5 = 20$
20) Explain the internal stru	acture of the gut.			
21) Differentiate hyperglyca	aemia from hypoglycaemia			
22) Animal husbandry is the	e science of rearing, feeding	and caring, breeding and dis-	ease control of animals. It ens	ures supply of
proper nutrition to our g	growing population through	activities like increased produ	action and improvement of an	imal products
like milk, eggs, meat, he	oney, etc.			
a. Poultry production de	epends upon the photoperiod	l. Discuss		
b. Polyculture of fishes	is of great importance.			
23) Explain the principle in	volved in PET scan			

Send Your Questions and Answers to Our Email Id - padasalai.net@gmail.com

RAVI MATHS TUITION CENTER, NEAR VILLIVAKKAM RLY STATION, CHENNAI – 82. WHATSAPP - 8056206308

BOTANY MODEL 4

11th Standard

1) Thick walled aplanospores are called (a) akinete (b) hormogone (c) hypnospore (d) tetraspore 2) Petiole is present in: (a) Calotropis (b) Hibiscus (c) Gloriosa (d) None of the above 3) Pappus is seen in (a) Potato (b) Hibiscus (c) Papaya (d) Tridax 4) Engler and Prantl proposed (b) Hibiscus (c) Papaya (d) Tridax 4) Engler and Prantl proposed (c) Papaya (d) Artificial 5) Mitosis can occur in (a) Natural (b) Sexual (c) Phylogenetic (d) Artificial 5) Mitosis can occur in (a) Haploid and diploid cells both (b) Pollen mother cells (c) Haploid cell only (d) Diploid cell only 6) Gymnosperm wood is known as (a) non porous wood (b) hard wood (c) porous wood (d) sap wood 7) Identify the wrong statement with reference to Diffusion (ii) It is seen in gases and liquids. ii) It is a active process and hence no energy expenditure is required. (iii) The rate of diffusion is determined by concentration gradient. (iv) It is independent of the fiving system. (a) if and iii (b) Hard wood (c) nonly (d) indivention in a concentration gradient. (iv) It is independent of the fiving system. (b) i and iv (c) in only (d) indivention in a concentration gradient. (iv) It is independent of the fiving system. (a) if and iii (c) Debydrogenese 4: 9) Name the methods of asexual reproduction seen in algae. 10) Define Meristematic zone. 11) What is a Syconus? 12) Give the Binomials of a) Sun hemp b) Flame of the forest 13) What is closed mitosis? 14) Mention three salient features of Brown algae. 15) Mention three salient features of Brown algae. 16) What are hook climbers? 17) Mention any three functions of fruit 18) What is Endomitosis?				Biology		Reg.No.:		
1) Thick walled aplanospores are called	Exa	am Time: 01:30:00 Hrs					,	Total Marks : 35
(a) akinete (b) hommogone (c) hypnospore (d) tetraspore 2 Peticle is present in: (a) Calotropis (b) Hibiscus (c) Gloriosa (d) None of the above 3 Pappus is seen in (a) Potato (b) Hibiscus (c) Papaya (d) Tridax 4 Engler and Prantl proposed system of classification. (a) Natural (b) Sexual (c) Phylogenetic (d) Artificial 5 Mitosis can occur in (a) Haploid and diploid cells both (b) Pollen mother cells (c) Haploid cell only (d) Diploid cell only 6 Gymnosperm wood is known as (a) non porous wood (b) hard wood (c) porous wood (d) sap wood 7 Identify the wrong statement with reference to Diffusion i) It is seen in gases and liquids. (ii) It is a active process and hence no energy expenditure is required. (iii) The rate of diffusion is determined by concentration gradient. (iv) It is independent of the Eving system. (a) it and ii (b) i and iv (c) ii only (d) i only 8								$8 \times 1 = 8$
2) Petiole is present in: (a) Calotropis (b) Hibiscus (c) Gloriosa (d) None of the above 3) Pappus is seen in	1)		· · · · · · · · · · · · · · · · · · ·					
(a) Calotropis (b) Hibiscus (c) Gloriosa (d) None of the above Pappus is seen in		` '	(b) hormogone	(c) hy	pnospore	(d)) tetraspore	
3) Pappus is seen in	2)	-	a >					
(a) Potato (b) Hibiscus (c) Papaya (d) Tridax 4) Engler and Prantl proposed	•	•		(c) Glorios	sa (d) None of the a	ıbove	
4 Engler and Prantl proposed	3)			,	` =	,		
(a) Natural (b) Sexual (c) Phylogenetic (d) Artificial Mitosis can occur in	4)	` '	` /	· ·	c) Papaya	(d) Tridax	
5) Mitosis can occur in	4)		-		·•	(1)	1	
(a) Haploid and diploid cells both (b) Pollen mother cells (c) Haploid cell only (d) Diploid cell only Gymnosperm wood is known as	5)	` '	` '	(c) Phyloger	ietic	(d)	Artificial	
6) Gymnosperm wood is known as	3)			(h) Dallan mathan a lla	(a) Hamla	برام الممان	(d) Dinloid	براسم المما
(a) non porous wood (b) hard wood (c) porous wood (d) sap wood 7) Identify the wrong statement with reference to Diffusion i) It is seen in gases and liquids. ii) It is a active process and hence no energy expenditure is required. (iii) The rate of diffusion is determined by concentration gradient. (iv) It is independent of the fiving system. (a) ii and iii (b) i and iv (c) ii only (d) i only 8) is not linked to protein - lecithin theory. (a) phosposatidic acid (b) ATP4 (c) Cholure (l) Dehydrogenase 4: 9) Name the methods of asexual reproduction seen in algae. 10) Define Meristematic zone. 11) What is a Syconus? 12) Give the Binomials of a) Sun hemp b) Flame of the forest 13) What is closed mitosis? 14) Mention any two sulphur containing amino acids. 3: 15) Mention three salient features of Brown algae. 16) What are hook climbers? 17) Mention any three functions of fruit 18) What is Karyotaxonomy / Cytotaxonomy? 19) What is Endomitosis? 2 x 20) Write down the characteristic features of Chlorophyceae. 21) Write a note on the regions of the root.	6)			` ´	(с) паріс	old cell ollly	(d) Dipioid	cen only
7) Identify the wrong statement with reference to Diffusion i) It is seen in gases and liquids. ii) It is a active process and hence no energy expenditure is required. (iii)The rate of diffusion is determined by concentration gradient. (iv) It is independent of the fiving system. (a) ii and iii (b) i and iv (c) ii only (d) i only (d) i only 8) is not linked to protein - lecithin theory. (a) phosphatidic acid (b) ATP4 (c) Cholune (c) Dehydrogenase 4: 9) Name the methods of asexual reproduction seen in algae. 10) Define Meristematic zone. 11) What is a Syconus? 12) Give the Binomials of a) Sun hemp b) Flame of the forest 13) What is closed mitosis? 14) Mention any two sulphur containing amino acids. 15) Mention three salient features of Brown algae. 16) What are hook climbers? 17) Mention any three functions of fruit 18) What is Karyotaxonomy / Cytotaxonomy? 19) What is Endomitosis? 2 x 20) Write down the characteristic features of Chlorophyceae. 21) Write a note on the regions of the root. 22) Write a note on Schizocarpic fruits.	0)	• •			(c) porous wo	od	(d) san we	ood
i) It is seen in gases and liquids. ii) It is a active process and hence no energy expenditure is required. (iii)The rate of diffusion is determined by concentration gradient. (iv) It is independent of the living system. (a) ii and iii (b) i and iv (c) nonly (d) i only 8) is not linked to protein - lecithin theory. (a) phospeatidic acid (b) ATP4 (c) Cholme (c) Dehydrogenase 4: 9) Name the methods of asexual reproduction seen in algae. 10) Define Meristematic zone. 11) What is a Syconus? 12) Give the Binomials of a) Sun hemp b) Flame of the forest 13) What is closed mitosis? 14) Mention any two sulphur containing amino acids. 15) Mention three salient features of Brown algae. 16) What are hook climbers? 17) Mention any three functions of fruit 18) What is Karyotaxonomy / Cytotaxonomy? 19) What is Endomitosis? 2 x 20) Write down the characteristic features of Chlorophyceae. 21) Write a note on the regions of the root. 22) Write a note on Schizocarpic fruits.	7)	•		,	(c) porous wo	ou	(a) sap we	,od
ii) It is a active process and hence no energy expenditure is required. (iii)The rate of diffusion is determined by concentration gradient. (iv) It is independent of the fiving system. (a) ii and iii (b) i and iv (c) nonly (d) i only 8) is not linked to protein - lecithir theory. (a) phospeatidic acid (b) ATP4 (c) Cholme (c) Dehydrogenase 4: 9) Name the methods of asexual reproduction seen in algae. 10) Define Meristematic zone. 11) What is a Syconus? 12) Give the Binomials of a) Sun hemp b) Flame of the forest 13) What is closed mitosis? 14) Mention any two sulphur containing amino acids. 15) Mention three salient features of Brown algae. 16) What are hook climbers? 17) Mention any three functions of fruit 18) What is Karyotaxonomy / Cytotaxonomy? 19) What is Endomitosis? 2 x 20) Write down the characteristic features of Chlorophyceae. 21) Write a note on the regions of the root. 22) Write a note on Schizocarpic fruits.	')	-		e to Diffusion				
(iii)The rate of diffusion is determined by concentration gradient. (iv) It is independent of the fiving system. (a) ii and iii (b) i and iv (c) ii only (d) i only 8) is not linked to proteir - lecithin theory. (a) phosphatidic acid (b) ATP4 (c) Choline (l) Dehydrogenase 4: 9) Name the methods of asexual reproduction seen in algae. 10) Define Meristematic zone. 11) What is a Syconus? 12) Give the Binomials of a) Sun hemp b) Flame of the forest 13) What is closed mitosis? 14) Mention any two sulphur containing amino acids. 3: 15) Mention three salient features of Brown algae. 16) What are hook climbers? 17) Mention any three functions of fruit 18) What is Karyotaxonomy / Cytotaxonomy? 19) What is Endomitosis? 2 x 20) Write down the characteristic features of Chlorophyceae. 21) Write a note on the regions of the root.		,	•	ry expenditure is require	d.			
(iv) It is independent of the fiving system. (a) ii and iii (b) i and iv (c) ii only (d) i only 8) is not linked to proteir - lecithir theory. (a) phospoatidic acid (r) ATP4 (c) Choline (l) Dehydrogenase 4: 9) Name the methods of asexual reproduction seen in algae. 10) Define Meristematic zone. 11) What is a Syconus? 12) Give the Binomials of a) Sun hemp b) Flame of the forest 13) What is closed mitosis? 14) Mention any two sulphur containing amino acids. 3: 15) Mention three salient features of Brown algae. 16) What are hook climbers? 17) Mention any three functions of fruit 18) What is Karyotaxonomy / Cytotaxonomy? 19) What is Endomitosis? 2 x 20) Write down the characteristic features of Chlorophyceae. 21) Write a note on the regions of the root.			_					
(a) it and iti (b) it and iv (c) it only (d) it only It is not linked to protein - lecithin theory. (a) phosphatidic acid (b) ATP4 (c) Cholme (c) Dehydrogenase A : (a) phosphatidic acid (b) ATP4 (c) Cholme (c) Dehydrogenase A : (a) phosphatidic acid (b) ATP4 (c) Cholme (c) Dehydrogenase A : (a) phosphatidic acid (b) ATP4 (c) Cholme (c) Dehydrogenase A : (a) phosphatidic acid (c) ATP4 (c) Cholme (c) Dehydrogenase A : (a) phosphatidic acid (c) ATP4 (c) Cholme (c) Dehydrogenase A : (a) phosphatidic acid (c) ATP4 (c) Cholme (c) Dehydrogenase A : (a) phosphatidic acid (c) ATP4 (c) Cholme (c) Dehydrogenase A : (a) phosphatidic acid (c) Phosphatidic acid (c) Dehydrogenase A : (a) phosphatidic acid (c) Phosphatidic a		` '	•					
(a) phosphatidic acid (b) ATF4 (c) Cholune (c) Dehydrogenase 4: 9) Name the methods of asexual reproduction seen in algae. 10) Define Meristematic zone. 11) What is a Syconus? 12) Give the Binomials of a) Sun hemp b) Flame of the forest 13) What is closed mitosis? 14) Mention any two sulphur containing amino acids. 15) Mention three salient features of Brown algae. 16) What are hook climbers? 17) Mention any three functions of fruit 18) What is Karyotaxonomy / Cytotaxonomy? 19) What is Endomitosis? 2 x 20) Write down the characteristic features of Chlorophyceae. 21) Write a note on the regions of the root.			\ \\= -//	d iv	(c) it only		(d) i on!y	
9) Name the methods of asexual reproduction seen in algae. 10) Define Meristematic zone. 11) What is a Syconus? 12) Give the Binomials of a) Sun hemp b) Flame of the forest 13) What is closed mitosis? 14) Mention any two sulphur containing amino acids. 15) Mention three salient features of Brown algae. 16) What are hook climbers? 17) Mention any three functions of fruit 18) What is Karyotaxonomy / Cytotaxonomy? 19) What is Endomitosis? 2 x 20) Write down the characteristic features of Chlorophyceae. 21) Write a note on the regions of the root. 22) Write a note on Schizocarpic fruits.	8)	is not linke	ed to protein - lecith	nin theory.				
9) Name the methods of asexual reproduction seen in algae. 10) Define Meristematic zone. 11) What is a Syconus? 12) Give the Binomials of a) Sun hemp b) Flame of the forest 13) What is closed mitosis? 14) Mention any two sulphur containing amino acids. 15) Mention three salient features of Brown algae. 16) What are hook climbers? 17) Mention any three functions of fruit 18) What is Karyotaxonomy / Cytotaxonomy? 19) What is Endomitosis? 2 x 20) Write down the characteristic features of Chlorophyceae. 21) Write a note on the regions of the root. 22) Write a note on Schizocarpic fruits.		(a) phosphatidic acid		(b) ATP4 (c)	Choline	(d) Dehyd	lrogenase	
10) Define Meristematic zone. 11) What is a Syconus? 12) Give the Binomials of a) Sun hemp b) Flame of the forest 13) What is closed mitosis? 14) Mention any two sulphur containing amino acids. 15) Mention three salient features of Brown algae. 16) What are hook climbers? 17) Mention any three functions of fruit 18) What is Karyotaxonomy / Cytotaxonomy? 19) What is Endomitosis? 2 x 20) Write down the characteristic features of Chlorophyceae. 21) Write a note on the regions of the root. 22) Write a note on Schizocarpic fruits.								$4 \times 2 = 8$
11) What is a Syconus? 12) Give the Binomials of a) Sun hemp b) Flame of the forest 13) What is closed mitosis? 14) Mention any two sulphur containing amino acids. 3: 15) Mention three salient features of Brown algae. 16) What are hook climbers? 17) Mention any three functions of fruit 18) What is Karyotaxonomy / Cytotaxonomy? 19) What is Endomitosis? 2 x 20) Write down the characteristic features of Chlorophyceae. 21) Write a note on the regions of the root. 22) Write a note on Schizocarpic fruits.	9)	Name the methods of as	sexual reproduction	seen in algae.				
12) Give the Binomials of a) Sun hemp b) Flame of the forest 13) What is closed mitosis? 14) Mention any two sulphur containing amino acids. 3: 15) Mention three salient features of Brown algae. 16) What are hook climbers? 17) Mention any three functions of fruit 18) What is Karyotaxonomy / Cytotaxonomy? 19) What is Endomitosis? 2 x 20) Write down the characteristic features of Chlorophyceae. 21) Write a note on the regions of the root. 22) Write a note on Schizocarpic fruits.	10)	Define Meristematic zo	ne.					
13) What is closed mitosis? 14) Mention any two sulphur containing amino acids. 3 : 15) Mention three salient features of Brown algae. 16) What are hook climbers? 17) Mention any three functions of fruit 18) What is Karyotaxonomy / Cytotaxonomy? 19) What is Endomitosis? 2 x 20) Write down the characteristic features of Chlorophyceae. 21) Write a note on the regions of the root. 22) Write a note on Schizocarpic fruits.	11)	What is a Syconus?						
14) Mention any two sulphur containing amino acids. 3 2 15) Mention three salient features of Brown algae. 16) What are hook climbers? 17) Mention any three functions of fruit 18) What is Karyotaxonomy / Cytotaxonomy? 19) What is Endomitosis? 2 x 20) Write down the characteristic features of Chlorophyceae. 21) Write a note on the regions of the root. 22) Write a note on Schizocarpic fruits.	12)	Give the Binomials of a	a) Sun hemp b) Flan	ne of the forest				
15) Mention three salient features of Brown algae. 16) What are hook climbers? 17) Mention any three functions of fruit 18) What is Karyotaxonomy / Cytotaxonomy? 19) What is Endomitosis? 2 x 20) Write down the characteristic features of Chlorophyceae. 21) Write a note on the regions of the root.	13)	What is closed mitosis?	•					
15) Mention three salient features of Brown algae. 16) What are hook climbers? 17) Mention any three functions of fruit 18) What is Karyotaxonomy / Cytotaxonomy? 19) What is Endomitosis? 2 x 20) Write down the characteristic features of Chlorophyceae. 21) Write a note on the regions of the root. 22) Write a note on Schizocarpic fruits.	14)	Mention any two sulphi	ur containing amino	acids.				
16) What are hook climbers? 17) Mention any three functions of fruit 18) What is Karyotaxonomy / Cytotaxonomy? 19) What is Endomitosis? 2 x 20) Write down the characteristic features of Chlorophyceae. 21) Write a note on the regions of the root. 22) Write a note on Schizocarpic fruits.								$3 \times 3 = 9$
17) Mention any three functions of fruit 18) What is Karyotaxonomy / Cytotaxonomy? 19) What is Endomitosis? 2 x 20) Write down the characteristic features of Chlorophyceae. 21) Write a note on the regions of the root. 22) Write a note on Schizocarpic fruits.	15)	Mention three salient fe	eatures of Brown alg	gae.				
18) What is Karyotaxonomy / Cytotaxonomy? 19) What is Endomitosis? 2 x 20) Write down the characteristic features of Chlorophyceae. 21) Write a note on the regions of the root. 22) Write a note on Schizocarpic fruits.	16)	What are hook climbers	s?					
 19) What is Endomitosis? 2 x 20) Write down the characteristic features of Chlorophyceae. 21) Write a note on the regions of the root. 22) Write a note on Schizocarpic fruits. 	17)	Mention any three func	tions of fruit					
2 x 20) Write down the characteristic features of Chlorophyceae. 21) Write a note on the regions of the root. 22) Write a note on Schizocarpic fruits.	18)	What is Karyotaxonom	y / Cytotaxonomy?					
20) Write down the characteristic features of Chlorophyceae.21) Write a note on the regions of the root.22) Write a note on Schizocarpic fruits.	19)	What is Endomitosis?						
21) Write a note on the regions of the root.22) Write a note on Schizocarpic fruits.								$2 \times 5 = 10$
22) Write a note on Schizocarpic fruits.				hlorophyceae.				
-		_						
23) List the ICN principles.			_					
	23)	List the ICN principles.						

Ravi home tutions ZOOLOGY MODEL 4

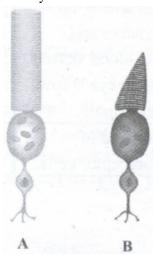
11th Standard

		Bio	ology	Re	g.No. :		
Exa	am Time: 01:30:00 Hrs					Total	Marks: 35
							$8 \times 1 = 8$
1)	is called the b	oird man of India.					
	(a) Dr. Subramaniam	(b) Dr. Salim Ali	(c) W	/hittaker	(d) Var	rad Giri	
2)	The special flagellated cells lining	g the spongocoel is:					
	(a) Choanocytes	(b) Cridocytes	(c) Nematocys	st	(d) Lasso	cells	
3)	Radiata include						
	` ` `	b) Triploblastic and radially	(c) Diploblastic		(d) Triplobla		ilaterally
	symmetrical animals.	ymmetrical animals.	symmetrical anii	mals.	symmetrical	animals.	
4)	Squid, cuttle fish and Octopus be	•					
	•	scaphopoda	(c) cephalop	ooda	(d)) apods	
5)	What distinguishes an insects from						
	•	ngement of nerve cords	(c) number of	appendages	(d) prese	ence of wi	ngs.
6)		bular blind processes.					
	•) Malpighian tubules	(c) Neph	ridia	(d) Colleterial	l gland	
7)	Find the incorrect statement.						
	(a) Gaseous exchange continues in the lungs (b) The blood is the tissue (c) Deoxygenation of blood promotes the (d) All						
	because some air remains inside the	5 5	ontains higher pO ₂		rben di oxide fro	m the bloc	od the
	after deepest exhalation	than tissue fl	uid.	in the lungs.			above
8)	Respiratory centre of bram is stin						
	(a) Carbon dioxide content in	(b) Carbon dioxide content		en content in	venous (d) Oxy	gen conter	nt in arterial
	venous blood	arterial blood	blood		blood		
	ISWER 4						$6 \times 2 = 12$
9)	Write down the binomial names for the following						
	(i) National Bird of India,						
	(ii) National Animal of India,						
10)	(iii) Tamil Nadu State Bird.						
	Why are round worms so called?						
	Which is longest species of earth	worm in South India and in	Africa?				
12)	Name the three layers of alveoli.						
13)	Give examples of fishes grown in	n Brackish water aquaculture	е.				
14)	Write about the unique flight take	en by the queen bee during t	he breeding season	n			
AN	SWER 3						$5 \times 3 = 15$
15)	What is genus? Mention the type	S.					
16)	Differentiate Chordates and Non-	-Chordates.					

18) Discuss the five primary functions of the respiratory system.

17) Describe the economic importance of earthworm.

19) Identify A and B. Write the significance of each.



ANSWER 2 $4 \times 5 = 20$

- 20) What is the difference between a Zoo and Wild Life Sanctuary
- 21) Explain the human respiratory system.
- 22) Animal husbandry is the science of rearing, feeding and caring, breeding and disease control of animals. It ensures supply of proper nutrition to our growing population through activities like increased production and improvement of animal products like milk, eggs, meat, honey, etc.
 - a. Poultry production depends upon the photoperiod. Discuss
 - b. Polyculture of fishes is of great importance.
- 23) Explain the stages involved in rearing of poultry.



RAVI MATHS TUITION CENTER, NEAR VILLIVAKKAM RLY STATION, CHENNAI – 82. WHATSAPP - 8056206308

BOTANY MODEL 5

11th Standard

		Biology	Reg.No.:		
Ex	am Time: 01:30:00 Hrs				Total Marks : 35
					$8 \times 1 = 8$
1)	The correct statement regarding Blue green algae is				
	(a) lack of motile (b) presence of cellulose in cell	(c) absence of mucilage are	ound the (d)	presence of	of floridean
	structures wall	thallus	star	ch	
2)	Monotropa derives nutrition by				
	(a) Root Nodules (b) Lichens	(c) Mycorrhizae		(d) Ro	ots
3)	Curcuma amada, Curcuma domestica, Asparagus, Maran	_			
	(a) Tuberous root (b) Beaded root	(c) Moniliform root	(d) No	odulose roo	t
4)	Which of the following is a flowering plant with nodules	· ·		•	
	(a) Crotalaria juncea (b) Cycas revoluta	(c) Cicer arietinum	(d) Casuarina	equisetifoli	ia
5)	Centromere is required for				
	(a) transcription (b) crossing over (c) cytoplasmic	• , ,	nt of Chromosom	e towards p	ole
6)	Enzymes that catalyse interconversion of optical, geomet	•			
_\		Hydrolases	(d) Isomer	ases	
7)	Read the following sentences and identify the correctly n				
	i. In exarch condition, the protoxylem lies outside of met	•			
	ii. In endarch condition, the protoxylem lie towords the c				
	iii. In centarch condition, metaxylem lies in the middle of) \- / (
	iv. In mesarch condition, protoxylera lies in the middle of			D A1	
6)	(a) i, ii ard iii only (b) ii, iii and iv only	(c) i, ii and iv only	(d) Allofth	iesc
8)	Which chlorophyll molecule does not have a phytol tail? (a) Chl-a (b) Chl-b	(c) Chl- c	(d) Ch	1 d	
	(a) CIII- a (b) CIII-0	(c) Cm-c	(d) Cli	ı -u	$6 \times 2 = 12$
9)	Why do farmers plant leguminous crops in crop rotations	s/mixed cronning?			0 X Z 1 Z
	What is the unique feature of cell membrane of Archaeba	•			
	Compare sympodial branching with monopodial branching				
	Potato has scale leaves and not foliage leaves. Give reason	_			
	How phosphorylase enzyme open the stomata in starch si				
	A tree is believed to be releasing oxygen during night tin			tement? Iu	ctify your
- •,	answer by giving reasons?	ne. Do you believe the trum	umess of this sta	ement. 3a	Stilly your
	uno ver of giving reasons.				$5 \times 3 = 15$
15)	Write down the non- living characteristic features of viru	ıs.			0 11 0 10
	Describe the Functions of the stem.				
	Mention any three roles of Botanical gardens				
	Microspores are produced is the multiples of four. why?				
	What are the steps involved in phloem loading?				
,	1				$4 \times 5 = 20$
20)	Explain the characteristic features of Mycoplasma or Mo	ollicutes.			
	Compare the location, cellular types and the functions of				
	Write down the economic importance of Family Fabacea				
	, ···, ···, ···				

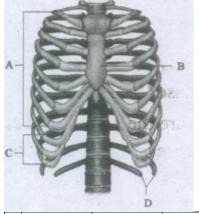
23) What are enzyme Inhibitors? Explain the two types of inhibitors?

Padasalai

Ravi home tutions **ZOOLOGY MODEL 5**

11th Standard

Exa	nm Time : 01:30:00 Hrs		Biology	Reg.No. :	Total Marks : 35		
					$8 \times 1 = 8$		
1)	Book written by Darwin_						
	(a) Historia Generalis	(b) Origin of species	(c) Systema Naturae	(d) Phylogen	y of plants		
2)	According to Aristotle, th	e animals with red blood cel	lls are called:				
	(a) Anaima	(b) chromista	(c) Enaima	(d) Protozo	oa		
3)	The first segmented anim	als to evolve were the					
	(a) Annelids	(b) Arthropods	(c) Molluscs	(d) Echinoderm	s		
4)	Which of the following sl	hows metamerically segment	ted body?				
	(a) Aschelminthes	(b) Annelida	(c) Arthropoda	(d) Platyhelmint	hes		
5)	Wuchereria is found in						
	(a) lymph nodes	(b) lu	ings (c) eye	(d) gon	ds		
6)	helps to stop substat	nces from leaking across a ti	ssue.				
	(a) Gap junction	(b) Tissue junction	(c) Tight junction	(d) Adhering ju	nction		
7)	'Angina' refers to						
	(a) Heart muscle	(b) Stroke (c)) Coronary heart disease	(d) C	Chest pain		
8)	Erythroblastosis foetalis i	s a condition of incompatibil	lity related to				
	(a) Rh antigen and Rh anti	bodies (b) anti A and	d antigen B (c) anti B and	d antigen A (d)	antigens A and B		
AN	ISWER 4				$6 \times 2 = 12$		
9)	Define the following term	ns - (1) Halophiles					
	(ii) Methanogens						
	(iii) Thermoacidophiles						
10)	Expand the abbreviations	DAISY and ABIS.					
11)	How does crocodile diffe	r from the rest of the reptiles	;?				
12)	Write the location of com	pound epithelium					
13)	What is aneurysm? How	much it is dangerous?					
	•	as A, B, C and D for the bel-	ow diagram				
	SP	3					



	A	В	C	D
(a)	True ribs	Sternum	False ribs	Floating ribs
(b)	Sternum	False ribs	Floating ribs	True ribs
(c)	False ribs	Floating ribs	True ribs	Sternum
(d)	Floating ribs	True ribs	Sternum	False ribs

 $4NSWER 3 5 \times 3 = 15$

- 15) How did Aristotle classify organisms?
- 16) Give an account of the General features of subphylum caphalochorelata.
- 17) What is ECG?
- 18) Draw a L.S. of Kidney and label
 - (a) Ureter, (b) Capsule, (c) Pelvis
- 19) Name the different methods of poultry farming.

ANSWER 2 $4 \times 5 = 20$

- 20) Can we use recent molecular tools to identify and classify organisms
- 21) Observe the animal below and answer the following questions.



- a. Identify the animal
- b. What type of symmetry does this animal exhibit?
- c. Is this animal Cephalized?
- d. How many germ layers does this animal have?
- e. How many openings does this animal's digestive system have?
- f. Does this animal have neurons?
- 22) List the hormones of the anterior lobe of the pituitary gland?
- 23) Explain the stages involved in rearing of poultry.

FOR ANSWERS (view only) WHATSAPP - 8056206308
