TIMING: 1.30 Hrs

COMMON QUARTERLY EXAM-2024

TOTAL MARKS: 35

CLASS: XI

PART – II – BIO- ZOOLOGY PART – I

TENTATIVE ANSWER KEY

CHOOSE THE CORRECT ANSWER

 $(8 \times 1 = 8)$

CC.C.L	(6×1=5)			
Q.NO	ANSWER		MARKS	
1	(b) flame cells		1	
2	(d) Both (b) and (c)		1	
3	(b) three		1	
4	(a) Parotid		1	
5	(a) inflammation of bronchus and bronchioles		1	
6	(a) Foetal RBC's		1	
7	(c) Urea		1	
8	All are correct answer. There is no wrong statement		1	

PART - II

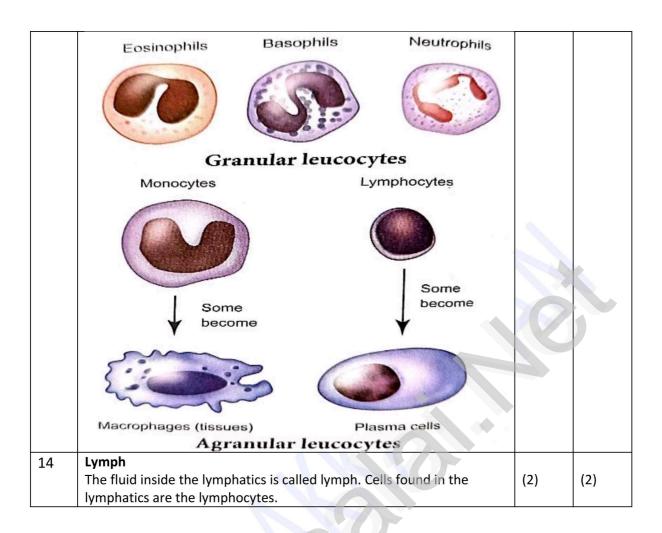
 $(4 \times 2 = 8)$

Answer any FOUR from the following question.

Q.N O		ANSWER			TOTAL MARK	
				SPLITT	S	
9	Animal	Triploblastic animals Animals in which the developing embryo has three germinal layers are called triploblastic animals				
10	White	White adipose tissue and Brown adipose tissue			(2)	
	s.no	White adipose tissue	Brown adipose tissue			
	1	Adipose tissues are also found in subcutaneous tissue, surrounding the kidneys, eyeball, heart, etc.	The adipose tissue which contains abundant mitochondria is called 'Brown fat' or Brown adipose tissue.			
	2	White fat stores nutrients	It is used to heat the blood stream to warm the body			
11	Functions of HCL in stomach The HCl provides an acidic medium which is optimum for pepsin, kills bacteria and other harmful organisms and avoids putrifaction			(2)	(2)	
12	Vital ca The ma breath	Vital capacity (VC) The maximum volume of air that can be moved out during a single breath following a maximal inspiration. A person first inspires maximally then expires maximally. VC = ERV+TV+IRV			(2)	
13	Differe	nt types of WBC (White Blo	ood Cells)	(2)	(2)	

Раве

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PART – III ($3 \times 3 = 9$) Answer any THREE from the following question. (Q.NO.19 is compulsory Question)

Q.NO	ANSWER	MARKS SPLITT	TOTAL MARKS
15	Some epithelial cells are Pseudostratified why i) Pseudo-stratified epithelial cells are columnar, but unequal in size. ii) Although the epithelium is single layered yet it appears to be multi-layered because the nuclei lie at different levels in different cells.	(1 ½+1 1/2)	(3)
16	Characteristics features of class mammals i) Variety of habitats, homeothermic, body is covered by hair. Presence of mammary glands. ii) They have 2 pair of limbs, skin has sweat glands and sebaceous gland and glandular in nature. iii) Exoskeleton includes – horns, spines, scales, claws, nails, hooves, and bony dermal plates	(1+1+1)	(3)

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17	Elas	., ch	art to show the nathway of a	ir flow during respiration		
1/	Flow chart to show the pathway of air flow during respiration					
		Nose \rightarrow Nasal & Oral cavities \rightarrow Pharynx \rightarrow Larynx \rightarrow Trachea \rightarrow				
	Bro	Bronchi → Secondary bronchi → Tertiary bronchi → Smallar bronchi			(3)	(3)
	\rightarrow E	Bron	chioles → Terminal bronchiole	e → Respiratory bronchiole→		
	Alve	eoli	→ Alveoli walls.			
18	Open circulation and closed circulation			(1 ½ +1	(3)	
					1/2)	
			Open circulation	Closed circulation		
		1	Haemolymph as the	Blood is pumped by the		
		_	circulating fluid and is	heart and flows through		
			pumped by the heart,	blood vessels.		
				blood vessels.		
			which flows through blood			
			vessels into the sinuses			
		2	e.g Arthropods and most	e.g Annelids, Cephalopods		
			Molluscs	and Vertebrates.		
19	Thr	ee i	main hormones involved in	the regulation of the renal	(1+1+1	(3)
(C.Q)	fun	ctic	on		=3)	
	1) ADH – Antidiuretic hormone					
	2) Renin- Angiotensin					
	3) Aldosterone					

PART - IV

 $(2 \times 5 = 10)$

Answer ALL from the following question

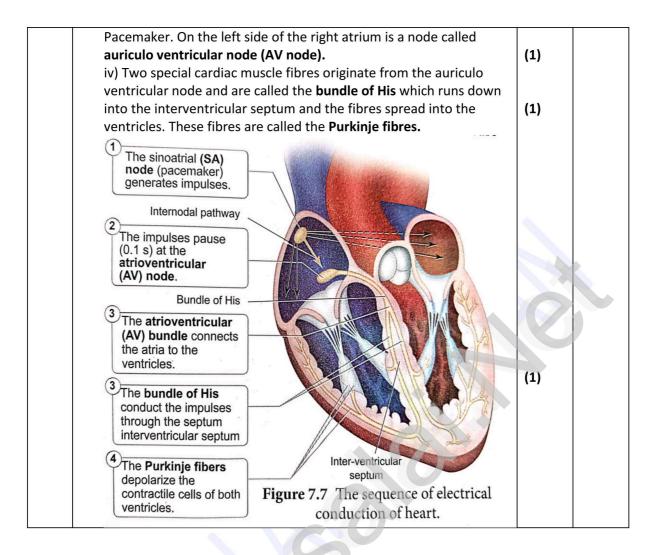
Q.N	ANSWER	MARK	TOTAL
0		S	MARK
		SPLITT	S
20	The classical taxonomical tools		
(a)	i) Taxonomical Keys:		
` '	Keys are based on comparative analysis of the similarities and	(1)	
	dissimilarities of organisms. There are separate keys for different		
	taxonomic categories.		
	ii) Museum:		
	Biological museums have collection of preserved plants and animals for	(1)	
	study and ready reference. Specimens of both extinct and living		
	organisms can be studied.		
	iii) Zoological parks:		
	These are places where wild animals are kept in protected	(1)	
	environments under human care. It enables us to study their food		
	habits and behaviour.		
	iv) Marine parks:	(1)	(5)
	Marine organisms are maintained in protected enviroments.		
	v) Printed taxonomical tools	(1)	
	consist of identification cards, description, field guides and manuals.		
20	Diagram of Digestive system of Rana hexadactyla		(5)
(b)			
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COMMON QUARTERLY EXAM - 2024

Standard - XI

Marks: 70 BIOLOGY Time : 3.00 hrs Part - I Bio-Botany Marks: 35 Part - A $8 \times 1 = 8$ Choose the correct answer 1) Identify the correctly matched pair: a) Bacteria - Crown gall
b) Actinomycetes - Late blight
c) fungi - Sandal spike
d) Mycoplasma - Lumpy jaw
2) Which one is not Angiospermic feature a) Double fertilization is present b) The ovules remains enclosed in the ovary c) Endosperm is haploid d) Flowers are produced is characteristic adaptation of xerophytes where the leaves modified into spines or scales c) Caudex d) culm a) Phylloclade b) Lianas 4) Vexillary aestivation is characteristic of the family a) Fabaceae b) Asteraceae c) Solanaceae d) Brassicaceae 5) Cell theory was proposed by b) Hertwig and Huxley d) Matthias schleiden and Theodor Schwann a) Fisher and Hardy c) Corti and Felix 6) The correct sequence in cell cycle is
a) S-M-G₁-G₂
b) S-G₁-G₂-M
7) Which pair is Polysacharides c) G_1 -S- G_2 -M d) M^1G_1 - G_2 -S b) Glycogen, Lactose d) glycogen and glucose a) Starch, Maltose c) Starch, glycogen 8) Identify the unit of Micrometer b) nm a) mm II. Answer any four questions:9) What is plectostole? G 9) What is plectostele? Give an example. 10) Define Capnophilic Bacteria
11) Draw and label the parts of the leaf.
12) Write any two uses of Herbarium. What are the four stages of Mitosis. 13) What are the four stages of Micosis.

14) Differentiate between aggregate fruit and multiple fruit. Part - C 111. Answer any three question: Question No. 18 is compulsory:
15) State the merits and demerits of five kingdom classification.
16) Do you think shape of chloroplast is unique for algae. Justify your Give a note on Cyathium inflorescence. 18) Differentiate between rough endoplasmic reticulum and smooth endoplasmic reticulum. 19) State the properties of Water. Part - D 2×5=10 IV. Answer all the questions:-20) a) Briefly discus on five kingdom classification. [or] b) Describe the floral characters of Clitoria ternatea. 21) a) Draw and label the Ultra structure of Plant cell. b) Write the characteristic feature of DNA. [or]

XI BIOLOGY

Part - II Bio-Zoology Marks: 35 Part - A I. Choose the correct answer $8 \times 1 = 8$ 1) The excretory cells that are found in Platyhelminthes a) Nephridia b) flamecells c) solenocytes d) Greenglands 2) The main function of the cuboidal epithelium is b) secretion a) Protection c) Absorption d) Both (b) and (c) 3) How many chambers is present in heart of Rana hexadoctyla b) three c) two d) five 4) Among three pairs salaivary gland which one is largest a) Parotid b) Sub maxillary c) Sub lingual d) Sub Mandibular 5) Asthma is caused due to a) inflammation of bronchus and bronehioles b) inflammation of branchione c) damage of diaphram d) infection of lungs 6) Erythroblastosis foetalis is due to the destruction of a) Foetal RBC's b) Foetus suffers from atherosclerosis c) Foetal WBC's d) Foetus suffers from mianmata 7) The end product of Ornithine cycle is a) Carbondioxide b) Uric acid c) Urea d) ammonia 8) Choose the wrong statement among the following a) In earthworm, a pair of male genitalpore is present b) Setae help in locomotion of earthworms c) Muscular layer in the body wall of earthworm is made up of circular muscles and longitudinal muscles. d) Typhlosole is part of the intestine of earthworm. Part - B II. Answer any four questions:- $4 \times 2 = 8$ 9) Define: Triploblastic animal 10) Differentiate white adipose tissue from brown adipose tissue 11) What is the function of HCl which is secreted in stomach. 12) Define Vital capacity. 13) Draw the different types of (WBC) White Blood Cells. 14) What is lymph? Part - C III. Answer any three questions. Question No.17 is compulsory: 3×3=9 15) Some epithelial cells are Pseudostraified what does this mean? 16) List three features that characterise class Mammalia. 17) Sketch a flowchart to show the pathway of air flowduring respiration. 18) Distinguish between open and closed circulation. 19) Name the three main hormones involved in the regulation of the renal function. Part - D IV. Answer all the questions: 2×5=10 20) a) What are the various classical taxonomical tools? Explain. [or] b) Give neat labelled sketch of Digestive system of Rana hexa dactyla 21) a) Explain the Mechanism of breathing. [or] b) Explain the origin and conduction of Heart Beat.