## HALF YEARLY EXAMINATION - 2023

11 - STD Marks: 70 **BIOLOGY** YouTube/ Akwa Academy TIME: 3.00 Hrs SECTION - 1 (BIO-BOTANY) (35 MARKS)  $8 \times 1 = 8$ I. Choose the correct answer. The correct statemenet regarding Blue green algai is b) Presence of cellulose in cell wall a) Lack of motile structures d) presence of floridean starch c) absence of mucilage around the thallus 2. A true fruit is the one where a) Only ovary of the flower develops into fruit b) Ovary and calyx of the flower develops into fruit c) Ovary, calyx and thallamus of the flower develops into fruit d) All floral whorls of the flower develops into fruit 3. The two subunits of ribosomes remain united at critical ion level of... d) Ferrous c) Sodium b) Calcium 4. When a leaf trace extends from a vascular bundle in a dicot stem, what would be the arrangement of a) Magnesium vascular tissues in the veins of the leaf? a) xylem would be on top and the phloem on the Bottom b) Phloem would be on the top and the xylem on the bottom c) Xylem would encircle the phloem d) Phloem would encircle the xylem 5. Munch hypothesis is based on... a) Translocation of food due to TP gradient and imbibition force b) Translocation of food due to TP. d) None of the above c) Translocation of food due to imbibition Force. 6. Synapsis occur between b) Spindle fibres and centromere a) mRNA and ribosomes d) a male and a female gamete c) two homologous chromosomes 7. Seed dormancy allows the plants to b) develop healthy seeds a) Overcome unfavourable climatic conditions d) Prevent deterioration of seeds , c) reduce viability 8. The correct sequence of flow of electrons in the light reaction is..... b) PSI, Plastoquinone, cytochrome, PSII ferredoxin a) PsII, Plastoquinone, cytochrome, PSI ferredoxin c) PSII, Ferredoxin, Plastoquinone, Cytochrome, PSI d) PSI, Plastoquinone, Cytochrome, PSII, ferredoxin  $4 \times 2 = 8$ II. Answer any four questions 9. What are Archae Bacteria? 10. What do you infer from the term Pycnoxylic? 11. What are Quantosomes? 12. What is Binomial nomenclature? 13. Draw and labell the structure of stomata? 14. What is long day plants? III. Answer any three questions. Q.No. 19 is compulsory.  $3 \times 3 = 9$ 15. Draw and Label the parts of regions of root? 16. Difference between mitosis in plants and Animals? 17. Write the role of nitrogenase enzyme in nitrogen fixation? 18. Short note on Photolysis of water? 19. List out the Physiological effects of Cytokinin?

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IV. Answer all the Owner.	2 x 5 = 10
20. Write the characteristic feature of DNA? (OR)  In Botany class, teacher explains and the size of the characteristic feature of the characteristic featur	2 x 3 - 10
In Botany class (OR)	t at and only 18
	plants and only to
" 3 Pidnis. The same teacher explains C plants are more advantageous in	an C <sub>3</sub> plants. Can
you identify the reason for this contradiction?	
21. Give the floral characters of Clitoria ternatea? (OR) Draw Kreb's cycle (or) Citricac	cid cycle?
SECTION - 2 (BIO - ZOOLOGY) (35 MARKS)	
I. Choose the correct answer.	8 x 1 = 8
Find the book written by Aristotle	
a) History of Animals b) Philosopie Zoologique	
c) Historia Generalis palntarum d) Methodus plantarum Nova	
2. Identify the phylum with features of combplates and Bioluminescene	
a) Cridaria b) Ctenophora c) Arthropods d) Leech	
3. Match it : A) Dense irregular - i) Fluid connective Tissue	
B) Elastic connective Tissue - ii) Found in the skin as leathery	dermis
C) Plood - iii) Tissue fluid	
D) Areolar connective Tissue - iv) helps in passive recoil of lung	s following inspiration
4. The type of vision in Cockroach is	
a) Three Dimensional b) Two Dimensional c) Simple vision d) mosaic vision	
<ol><li>During inspiration volume of the human thoracic chamber increases Amterioposte</li></ol>	nony due to
a) Contraction of diaphragm muscles b) contraction of internal intercostal muscles	scies
c) Contraction of external intercostal muselus d) Relaxation of Diaphragm muscl	es
6 Arteries do not always branch into arterioles some time they get connect with ano	ther artery and form
a) Capillary beds b) collecting tubules c) Anastomoses d) Filtering bodies.	
7. If any one of your classmate found to have rought irregular curvature of cornea and i	ens which is said to be
a) Astigmatism b) Hypermetropia c) Presbyopia d) myopia	
8. Isinglass is used in	· · · · · · · · · · · · · · · · · · ·
a) Distilation of wines b) Preparation of wines c) clearning wines d)	preservation of wines
II. Answer any four questions	4 x 2 = 8
9. Mention any four characteristics of subphylum cephalochordata and cite an exam	iple.
10. Differentiate between Tergum and sternum in Cockroaches.	₹ 5, <sup>3</sup> 6
11. What are the main functions of skeletal system.	
12. Write about important function of Limbic system.	
13. Sarcomere - Define.	
14. What are connective tissues mention their basic types.	
III. Answer any three questions. Q.No. 16 is compulsory.	$3 \times 3 = 9$
15. Compare schizocoelom and Enterococlom.	Carried to the second
16. How do vomiting happens, vomit colour is not as faecal yellow colour instead of its	is white in colour - how?
17. What are the main objectives of Animal breedings.	
18. Differntiate between Rod and Cone cells.	!
19. List out the functions of hormone Adrenalin.	्र <sup>क</sup>
IV. Answer all the Questions.	2 x 5 = 10
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20. Explain (RAAS) Renin - Angiotensin Aldosternone system in human. (OR)	Leongoity
Explain Respiratory volumes in human Respiratory system and add note on vita	
21. Explain Origin and conduction of heart beat in human with neat labelled diagram	
Briefly explain the structure and function of Thyroid gland with neat labelled diag	
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