

11-STD FIRST REVISION TEST - 2024

TIME : 3.00 Hrs

BIOLOGY

Marks : 70

BIO BOTANY **YouTube/ Akwa Academy****I. Answer all the questions.**

8 x 1 = 8

1. Aggregate Fruit develops from

- a) Multicarpellary, Apocarpous ovary b) Multicarpellary, Syncarpous ovary
c) Multicarpellary ovary d) Whole Inflorescence

2. Match the columns and identify the correct option

COLUMN I

- A Thylakoids
B Cristae
C Cisternae
D Chromatin

COLUMN II

- I) Disc-shaped sacs in golgi apparatus
II) Condensed structure of DNA
III) Flat membranous sacs in stroma
V) Infoldings in mitochondria

- | | (a) | (c) | (b) | (d) |
|----|-----|-----|-----|-----|
| 1. | III | IV | II | I |
| 2. | IV | I | I | II |
| 3. | III | IV | I | II |
| 4. | III | I | IV | II |

3. Identify the Archaeobacterium

- a) Acetobacter b) Erwinia c) Treponema d) Methenobacterium

4. Find out which plant produces photosynthesis through roots

- a) Tinospora b) Cuscuta c) Begonia d) Asparagus

5. The Correct sequence in cell cycle is a) S-M-G₁-G₂ b) S-G₁-G₂-M c) G₁-S-G₂-M d) M-G-G₂-S

6. In which of the Following Wavelength the rate of Photosynthesis is high?

- a) 400 to 700 nm c) 500 to 800 nm
b) 200 to 400 nm d) 300 to 500 nm

7. _____ is the powerful growth inhibitor

8. Which statement is wrong for kerbs cycle?

- a. There is one point in the cycle where FAD is reduced to FADH₂
b. During conversion of Succinyl CoA to succinic acid, a molecule of GTP is synthesised
c. The Cycle starts with condensation of acetyl group acetyl CoA with Pyruvic acid to yield citric acid.
d. There are three points in the cycle where NAD⁺ is reduced to NADH+H⁺
a. Ethanol b. Cytokinins c. ABA d. Auxin

II. Answer any four of the following questions

4 x 2 = 8

9. Give the technical terms for the following

- a) Stamens are united in one bunch
b) Stamens are attached to the petals

10. Write any two significances of mitosis

11. Differentiate homoiomerous and heteromerous lichens.

12. What are eustele? Give Example

13. In which season the vessels of angiosperms are larger in size? why?

14. Define Respiration quotient

III. Answer any Three Questions (Question No 19 is Compulsory)

3 x 3 = 9

15. Write the properties of water?

16. What is osmosis?

17. Draw and label the structure of mitochondria?

18. What is respiratory root? Give a example

19. What are the functions of cell wall?

IV. Answer all the Questions

2 x 5 = 10

20. A) write the classification of meristem based on position with Diagram (OR)

B) Make a chart of Glycolysis.

21. A) Differentiate between Gymnosperms and Angiosperms? (OR)

B) Give the floral characters of Datura Metal

BIO ZOOLOGY

YouTube/ Akwa Academy

8 x 1 = 8

I. Answer all the questions.

1. The sphincter of oddi guards
 - a) Hepatopancreatic duct
 - b) Pancreatic duct
 - c) common bile duct
 - d) cystic duct.
 2. The excretory cells that are found in platyhelminthes are
 - a) Protonephridia
 - b) flame cells
 - c) solenocytes
 - d) All of these
 3. Pneumatic bone are seen in
 - a) Mammalia
 - b) Aves
 - c) Reptilia
 - d) sponges
 4. Match column I with column II and choose the correct option.

Column I	Column II
p) Lipase	i) starch
q) Pepsin	ii) cellulose
r) Renin	iii) protein
s) ptyalin	iv) Lipid
a) (P-iv) (Q-ii) (R-i) (S-ii)	b) (P-iii) (Q-iv) (R-ii) (S-i)
c) (P-iv) (Q-iii) (R-ii) (S-i)	d) (P-iii) (Q-ii) (R-iv) (S-i)
 5. Serum calcium level is regulated by
 - a) Thyroxine
 - b) FSH
 - c) pancreas
 - d) Thyroid and parathyroid
 6. ATPase enzyme needed for muscle contraction is located in
 - a) actinin
 - b) troponin
 - c) myosin
 - d) actin.
 7. Which part of the human brain is concerned with the regulation of body temperature?
 - a) cerebellum
 - b) cerebrum
 - c) medulla oblongata
 - d) Hypothalamus
 8. Diluting fluid used for total WBC count is
 - a) Turk's solution
 - b) Toisson solution
 - c) Hayem's solution
 - d) folin phenol reagent.
- 4 x 2 = 8
- II. Answer Any Four Of The Following Questions:
9. List the disorders of the muscular system?
 10. Write economic importance of honey?
 11. List of functions of air bladder in fishes?
 12. What are the components of blood in frog?
 13. Why earthworms are considered as "friends of farmers"?
 14. What are the Advantages of integrated fish culture?
- 3 x 3 = 9
- III. Answer any three questions. Question no.19 is compulsory
15. What are the basic need of classification?
 16. Label the part of the C.S. of spiral cord.
 17. Difference between Rods and cone cells?
 18. Write about salient features of arthropoda?
 19. Write about economic importance of frogs?
- 2 x 5 = 10
- IV. Answer in Detail
20. a. Describe the mechanism by which the human heart beat is initiated and transported? (OR)
b. Difference between Inspiration and Expiration.
 21. a. Discuss about human digestive system related with enzymes? (OR)
b. Write function of skeletal system?