

<b>SECOND REVISION TEST - 2024</b>	<b>11 - STD</b>	
<b>ZOOLOGY</b>	Marks <b>70</b>	Time <b>3.00 Hrs.</b>

I. Answer all the questions. Choose the correct option.

15 x 1 = 15

- What type of fibres are found in connective tissue matrix  
a. collagen                      b. Areolar                      c. Cartilage                      d. Tubular
- Buccopharyngeal respiration in frog  
a. Is increased when nostrils are closed                      b. Stops when there is pulmonary respiration  
c. Is increased when it is catching fly                      d. Stop when mouth is opened.
- Non-shivering thermogenesis in neonates produces heat through  
a. White fat                      b. Brown fat                      c. Yellow fat                      d. Colourless fat
- The limbless amphibian is  
a. Ichthyophis                      b. Hyla                      c. Rana                      d. Salamander
- What is chyme....?  
a. The process of conversion of fat into small droplets.  
b. The process of conversion of micelles substances of glycerol into fatty droplets.  
c. The process of preparation of incompletely digested acidic food through gastric juice.  
d. The process of preparation of completely digested liquid food in midgut.
- When 1500 mL air is in the lungs, it is called  
a. Vital capacity                      b. Tidal volume                      c. Residual volume                      d. Inspiratory reserve volume
- Blood group is due to the presence or absence of surface  
a. Antigens on the surface of WBC                      b. Antibodies on the surface of RBC  
c. Antigens on the surface of RBC                      d. Antibodies on the surface of WBC
- Animal requiring minimum amount of water to produce urine are  
a. Ureotelic                      b. Ammonotelic                      c. Uricotelic                      d. Chemotelic
- The pointed portion of the elbow is  
a. Acromion process                      b. Glenoid cavity                      c. Olecranon process                      d. Symphysis
- Which of the following statements is wrong regarding conduction of nerve impulse?  
a. In a resting neuron, the axonal membrane is more permeable to  $K^+$  ions and nearly impermeable to  $Na^+$  ions.  
b. Fluids outside the axon have a high concentration of  $Na^+$  ions and low concentration of  $K^+$ , in a resting neuron.  
c. Ionic gradients are maintained by  $Na^+ K^+$  pumps across the resting membrane, which transport 3 $Na^+$  ions outwards for 2 $K^+$  into the cell.  
d. A neuron is polarized only when the outer surface of the axonal membrane possesses a negative charge and its inner surface is positively charged.
- Serum calcium level is regulated by  
a. Thyroxine                      b. FSH                      c. Pancreas                      d. Thyroid and parathyroid

12. Which one of the following is not an endemic species of earthworm?  
 a. Perionyx                      b. Lampito                      c. Eudrilus                      d. Octochaetona
13. PET scan uses  
 a. Radioisotopes                      b. UV rays                      c. Ultrasound                      d. IR waves
14. Which structure in the ear converts pressure waves to action potentials?  
 a. Tympanic membrane                      b. Organ of Corti  
 c. Oval window                      d. Semicircular canal
15. Which of the following glands is related with immunity?  
 a. Pineal gland                      b. adrenal gland                      c. thymus                      d. parathyroid gland

6 x 2 = 12

**II. Answer any six questions. Q. No.24 is compulsory.**

16. Differentiate between probiotics and pathogenic bacteria.
17. Write any two names of hemichordates.
18. Why is blood considered as a typical connective tissue?
19. Which vessels drain filtered blood from the kidneys?
20. Name the bones of the skull.
21. Why is the blind spot called so?
22. Write the functions of (CCK) Cholecystokinin.
23. What does a pacemaker do?
24. Write any two advantages of vermicomposting.

6 x 3 = 18

**III. Answer any six questions. Q.No.33 is compulsory.**

25. Write any three reasons why you call cockroaches a pest.
26. a. Bile juice contains no digestive enzymes, yet it is important for digestion. Why?  
 b. Where is it secreted and stored?
27. Differentiate Bohr effect and Haldane effect.
28. Write a note on granulocytes of WBCs?
29. Write any three functions of the skeletal system.
30. Cornea transplant in humans is almost never rejected. State the reason.
31. Differentiate hyperglycemia from hypoglycemia.
32. Give the normal Glucose values in blood.
33. Give the economic importance of lac insect.

5 x 5 = 25

**IV. Answer all the questions.**

34. a. What is ANS? Explain the components of ANS. (OR)  
 b. Comment on the functions of adrenalin.
35. a. Write any two nutritional and digestive disorders. (OR)  
 b. Draw a neat labelled diagram of the digestive system of frog
36. a. Sketch a flow chart to show the pathway of airflow during respiration. (OR)  
 b. Describe ECG.
37. a. How is urine formed in the human body?. (OR)  
 b. What is an epithelium? Enumerate the characteristic features of different epithelia.
38. a. List five features that characterise bony fishes. (OR)  
 b. Can we use recent molecular tools to identify and classify organisms? Describe.