ZOOLOGY TEACHERS ASSOCIATION, MALAPPURAM

FIRST YEAR HIGHER SECONDARY REVISION SERIES TEST - 2022

Exam No. 5

Total score: 30 **ZOOLOGY** **Time: 1 Hour**

Chapters: Excretory Products & their Elimination, Locomotion & Movement

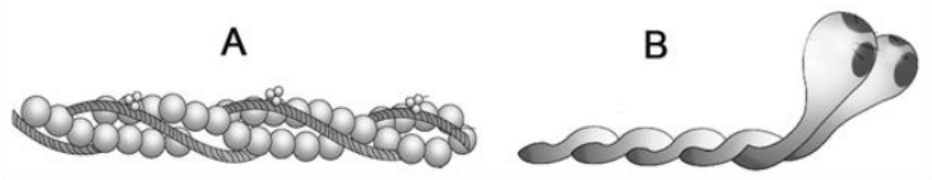
Answer all questions from 1 to 3. Each carry one score. (3 x 1 = 3)

1. Note the relationship between first two words and fill up the fourth place.
   Ciliary movement: Cilia Amoeboid movement: .....
2. Which of the following is the functional unit of kidney?
   a. Malpighian body b. Nephron c. Renal pyramid d. Glomerulus
3. Reabsorption of water from DCT is facilitated by the hormone .....

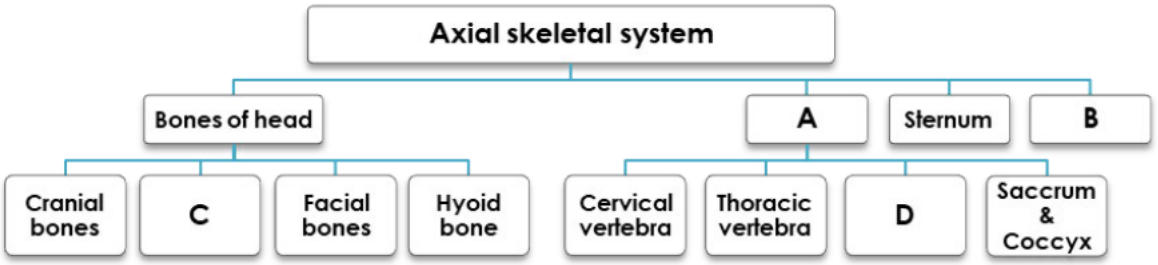
Answer any nine questions from 4 to 14. Each carry two scores. (9 x 2 = 18)

4. Prepare a flowchart of filtrate flow in the nephron using the flow terms.
   Collecting duct, PCT, DCT, Ascending limb of Henle's loop, descending limb of Henle's loop, Bowman's capsule
5. Some conditions related to a kidney disease are given below:
   - Accumulation of urea in blood.
   - Malfunction of kidney.

   a. Name the disease.
   b. Suggest the ultimate solution of this disease.
6. "Red muscle fibres have greater capacity to do work for a prolonged period, whereas white muscle fibres suffer from fatigue after a short work." Evaluate the statement.
7. "The functioning of the kidneys is efficiently monitored and regulated by the heart to certain extent" Do you agree with this statement? Justify your answer.
8. Observe the figures given below:



   a. Identify figure 'A' and 'B'.
   b. Name the subunits of 'A' and 'B'.
9. Mention the location of (a) Glenoid cavity (b) Acetabulum.
10. GFR in a healthy person is 180 liters per day. But urine released is only about 1.5 litres/day. Give reason.
11. Distinguish between Z line and M line.
12. Briefly explain the terms: (a) Micturition (b) Hemodialysis
13. Complete the following chart:



14. Certain disorders and their causes are given. Match them suitably.

Disorders	Causes
a. Myasthenia gravis	i. Low level of estrogen.
b. Tetany	ii. Autoimmune disorder.
c. Muscular dystrophy	iii. Low calcium ions in body fluid.
d. Osteoporosis	iv. Genetic disorder.

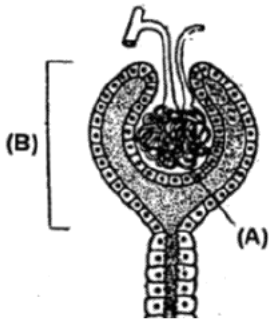
Answer any three questions from 15 to 18. Each carry three scores. (3 x 3 = 9)

15. Classify the following animals on the basis of the mode of nitrogenous waste excretion in the table given below. Give suitable titles.

Mammals, Birds, Bony fishes, Reptiles, Cartilaginous fishes, Aquatic amphibians

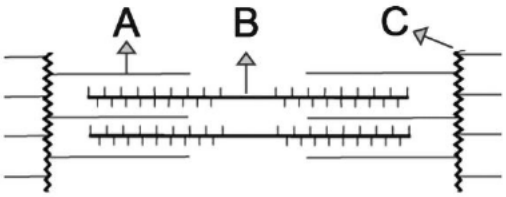
A	B	C

16. Observe the figure given below and answer the questions.



a. Identify the figure.
b. Name the labelled part (A) and (B).
c. Mention the three processes of urine formation.

17. Observe the relaxed unit of a muscle given below.



a. Label A, B & C.
b. Redraw the diagram when the muscle unit is maximally contracted.

18. Complete the table given below:

Types of synovial Joint	Example
(A)	Shoulder joint
Hinge joint	(B)
(C)	Between atlas & axis.
Gliding joint	(D)
(E)	(F)

Questions prepared by:

Academic wing- Zoology Association Malappuram