

Version- D**PART – B
ZOOLOGY**

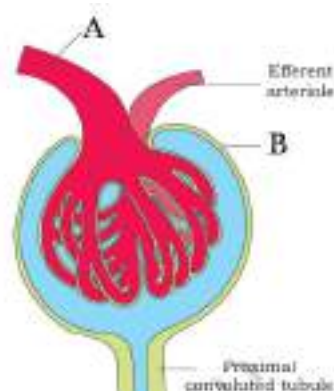
HSE-I

(Maximum : 20 Scores)**Time : 1 Hour****I. Answer any 3 questions from 1 to 5. Each carries 1 score. (3×1=3)**

1. Coronary Artery Disease, often referred to as, affects the vessels that supply blood to the heart muscle
2. Name the hormone secreted by heart
3. Note the relationship in the first pair and then complete the second pair.
O blood group : Universal donor
..... : Universal Recipient
4. Which of the following is the least toxic form of nitrogenous waste in animals
a. Urea b. Uric acid c. Ammonia d. Both A and b
5. Name the fluid filled space that separate the membranes of pre and post synaptic neurons at a chemical synapse

II. Answer any 7 questions from 6 to 14. Each carries 2 scores. (7×2=14)

6. Name the endocrine gland and their cells from which hormones secrete and it regulate blood glucose level.
7. Tubular secretion is also an important step in urine formation ,Explain
8. Sino-atrial node is called the pacemaker of our heart. Why?
9. Observe the given diagram of malpighian body (Renal corpuscle)and answer the following



- a) Identify the parts A and B.
- b) Specify the functions of Proximal convoluted tubule in urine formation?

10. Name part of brain from the statements given below
- a) Structure which connects two cerebral hemispheres.
 - b) Four rounded swellings in midbrain.
 - c) It consists of fibre tracts that interconnect different regions of the brain
 - d) Part of brain which controls respiration, cardiovascular reflexes and gastric secretions.

11. Erythrocytes or red blood cells (RBC) are the most abundant of all the cells in blood.
- a. Graveyard of RBC is.....
 - b. Name the red coloured, iron containing complex protein in the RBC

12. Name bones present in the
- a) Pectoral girdle
 - b) Pelvic girdle

13. What are the four types of tissue in human heart

14. Compare the following:

- (a) Central neural system (CNS) and Peripheral neural system (PNS)
- (b) Resting potential and action potential

III. Answer any 1 question from 15 to 17. Each carries 3 scores. (1×3=3)

15. Write a short note on

- a) Hormones of heart
- b) Hormones of Gastro Intestinal tract

16. Classify the following disorder under two categories

**Gout, Myasthenia gravis, Osteoporosis,
Muscular dystrophy, Tetany, Arthritis**

17. Explain how the following vital organs are protected

- a) Brain
- b) Heart
- c) Lungs

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