## **UNIVERSITY OF THE PUNJAB**

B.S. 4 Years Program / Fourth Semester – Spring 2023

Paper: Animal Form & Function II Course Code: ZOOL-207

(15x2=30)

## THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

- Q.1. Answer the following short questions.
  - 1. Describe the parathyroid gland.
  - II. Differentiate between sensory and motor neuron.
  - III. Describe the location and function of Photoreceptors.
  - IV. Diagrammatically, only, differentiate the nervous organization of a cephalopod and a crustacean.
  - V. Describe the lateral line system.
  - VI. Draw a labelled diagram of cross section of spinal cord.
  - VII. Describe in detail the sonar.
- VIII. With the help of labeled figures only, compare the heart and circulatory system of reptiles and mammals. Indicate the direction of blood flow.
  - IX. Give four basic physiological principles of cutaneous gas exchange.
  - X. Describe the properties of a respiratory exchange surface?
- XI. Compare the continuous and discontinuous feeders.
- XII. Discuss the structure and function of alveoli.
- XIII. Write a note on fate of proteins in heterotrophs.
- XIV. What is a gall bladder?
- XV. Describe the appendix.
- Q.2. Answer the following questions.

(3x10=30)

- 1. Give an account of the nerve impulse transmission mechanism in a neuron.
- 2. Discuss, very briefly, mode of actions of hormones.
- 3. Briefly discuss the diversity of digestive structures in invertebrates