



Sardar Patel University

B.Sc 4th Semester .

Zoology - US04CZ0001

Invertebrata, Vertebrate and Animal Behaviour

Day & Date: 6/10/22; Thursday

Time: 12:30 to 2:30 pm

Full marks: 70

Q. 1 Multiple choice questions

10

1. Number of testes in *Hirudinaria* are
 - a. 10 Pairs
 - b. 11 Pairs
 - c. 5 Pairs
 - d. 33 Pairs
2. In which segment do you find the ovisac in Leech?
 - a. 8th
 - b. 11th
 - c. 15th
 - d. 13th
3. Butterfly has which type of mouth parts?
 - a. Piercing and sucking type
 - b. Siphoning type
 - c. Sponging type
 - d. Chewing and sucking type
4. Osphradium is the associated with:
 - a. Digestion
 - b. Respiration
 - c. Excretion
 - d. Olfactory sensation
5. Redulla is present is:
 - a. *Pila*
 - b. *Unio*
 - c. *Loligo*
 - d. *Mytilus*
6. Walking legs in Prawn
 - a. 5 Pairs
 - b. 8 Pairs
 - c. 13 Pairs
 - d. 19 Pairs
7. Snake are sensitive to?
 - a. Noise made by the birds
 - b. Earth borne vibration
 - c. Sound
 - d. Air borne vibration
8. Which of the following is not a name of *Calotes*?
 - a. Wall lizard
 - b. Garden lizard
 - c. Blood sucker
 - d. Girgit
9. Diploid sterile female are known as
 - a. Drone
 - b. Workers
 - c. Queen bee
 - d. Male
10. Pheromone is secreted by which gland?
 - a. Exocrine gland
 - b. Endocrine gland
 - c. Both
 - d. None

Q.2 Write True or False

1X8=08

1. Leech is a sanguivorous animal. True/False
2. Sponging type of mouth parts present in house fly. True/False
3. *Calotes* sucks the blood. True/False
4. Krait is a non poisonous snake. True/False
5. Fang is present in Cobra. True/False
6. *Pila* is amphibious in nature. True/False
7. Queen bee is a fertile female. True/False
8. Hepatopancreas present in Prawn. True/False

Q.3 Write short answers (Attempt any ten)

10X2=20

1. What is hirudin?
2. Make a list of harmful insects.
3. Describe the significance of crop in leech.
4. Describe the feeding habit of *Hydra*.
5. Classify Prawn.
6. Describe Radula.
7. Draw *Calotes*.
8. Define venom of Snake.
9. Write about hemipenis of *Calotes*.
10. What are releaser pheromones?
11. Explain waggle dance.
12. Write the importance of honey.

Q.4 Long answer (Attempt any four)

8X4= 32

1. Describe mouth parts of insects.
2. Describe cephalic appendages of prawn.
3. Describe digestive organs of *Pila*.
4. Describe digestive system of Leech.
5. Describe respiratory system of *Calotes*
6. Write a note on Bipinnaria larva.
7. Write about innate behaviour
8. Describe Honey comb.