

SEAT No. \_\_\_\_\_

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[19/A-23]

SARDAR PATEL UNIVERSITY

B.Sc. SEMESTER-IV EXAM-2018

ZOOLOGY, US 04 CZOO 01

(INVERTEBRATE, VERTEBRATE AND ANIMAL BEHAVIOUR)

12/04/2018, THURSDAY

TIME: 10am to 1pm

MARKS: 70

Q-1 MULTIPLE CHOICE QUESTIONS

(10)

1. Leech is nutritionally  
(a) Herbivorous (b) Carnivorous (c) Sanguivorous (d) Omnivorous
2. A temporary clitellum is form in Leech on segments  
(a) 7 to 9 (b) 9 to 11 (c) 11 to 13 (d) 13 to 15
3. Chewing and lapping type of mouth parts found in  
(a) House fly (b) Honey bee (c) Butter fly (d) Mosquitoes
4. Excretory organ of Prawn is  
(a) Malpighian tubules (b) Kidney (c) Green gland (d) All of these
5. The total number of appendages present in the Prawn is  
(a) 10 (b) 14 (c) 17 (d) 19
6. Mouth of Pila shell is covered by  
(a) Operculum (b) Spiracle (c) Gill covers (d) None of these
7. In Calotes, fertilization takes place  
(a) External (b) In cloaca (c) In oviduct (d) In abdominal cavity
8. Venom of \_\_\_\_\_ Snake is Haemotoxic.  
(a) Viper (b) King Cobra (c) Rat Snake (d) Sea snake
9. The chemicals, which responsible for bringing two gametes together are known as  
(a) Allomones (b) Gamones (c) Termones (d) Kairomones
10. Lorenz demonstrated \_\_\_\_\_ behaviour in brood of geese.  
(a) Imprinting (b) Habituation (c) Reasoning (d) Tropism

[P.T.O.]

- Q-2 ANSWER IN SHORT (ANY TEN) (20)
1. Write about jaws of Leech.
  2. Explain the locomotion in Leech.
  3. Name any four insecticides.
  4. Write about habits and habitat of Prawn.
  5. Write about sexual dimorphism in Prawn.
  6. Name and functions of sense organs found in Pila.
  7. Draw and label the diagram of external features of Calotes.
  8. Name the types of Echinoderm larva.
  9. Write about first aid treatment of Snake bite.
  10. Name the kinds of cells in Honey comb with diagram.
  11. Explain the trial and error learning in animals with example.
  12. Differentiate between hormone and pheromone.
- Q-3. Describe the reproductive system of Leech with labeled diagram. (10)  
OR
- Q-3. Write an essay on economic importance of Insects. (10)
- Q-4. Write notes on: (a) External morphology of Prawn. (6)  
(b) Female reproductive system of Pila. (4)  
OR
- Q-4. Describe: (a) Digestive system of Pila. (6)  
(b) Male reproductive system of Prawn. (4)
- Q-5. (a) Describe the digestive system of Calotes with labeled diagram. (6)  
(b) Explain the distinction between Poisonous and Non poisonous Snakes. (4)  
OR
- Q-5. (a) Describe the brain of Calotes with labeled diagram. (6)  
(b) Explain the feeding mechanism of Snakes. (4)
- Q-6. (a) Explain the various types of innate behaviour with example. (7)  
(b) Explain the communication among honey bee by Bee dance. (3)  
OR
- Q-6. (a) Describe the mode of action of Pheromones. (7)  
(b) Write a note on social organization of Honey bee. (3)