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SARDAR PATEL UNIVERSITY  
B.Sc. IV- SEMESTER EXAM-2016  
ZOOLOGY, US04CZO001

( Invertebrate, Vertebrate & Animal behaviour)

DATE: 12/4/2016

TIME: 10:30am to 1:30pm

TUESDAY

MARKS: 70

Q-1. MULTIPLE CHOICE QUESTIONS. (10)

1. Leech is nutritionally..... in habit.  
(a) Carnivorous (b) Herbivorous (c) Sanguivorous (d) Insectivorous
2. Siphoning type of mouth parts are present in  
(a) House fly (b) Butter fly (c) Honey bee (d) Cockroach
3. In Human, Filariasis is spread by  
(a) Anopheles mosquitoes (b) Tse-tse fly (c) Sanfly (d) Culex mosquitoes
4. The total number of appendages present in the Prawn is  
(a) 13 (b) 15 (c) 16 (d) 19
5. Mode of respiration in Pila is  
(a) Aerial (b) Aquatic (c) Both (a) & (b) (d) None of these
6. Which type of teeth is present in Calotes?  
(a) Acrodont (b) Pleurodont (c) Thecodont (d) All of these
7. Poison gland of Snake is modified from..... gland.  
(a) Lingual (b) Parotid (c) Maxillary (d) Mandibular
8. Movement of animals in response to stimuli in definite direction is called  
(a) Taxis (b) Irritability (c) Kinesis (d) Instinct
9. Which one is responsible for bringing two gametes together?  
(a) Lysin (b) Antifertilizin (c) Gamones (d) Termones
10. Which stage is included in the life cycle of Honey bee?  
(a) Egg (b) Larva (c) Pupa (d) All of these

Q-2 ANSWER THE FOLLOWING QUESTIONS (ANY TEN). (20)

1. Write about the significance of crop in Leech.
2. Describe the jaws of Leech.
3. Name the types of helpful insects.
4. Describe the statocyst of Pila.
5. Write about sexual dimorphism in Prawn.
6. Draw and label the diagram of female reproductive system of Prawn.
7. Write about the digestive glands of Calotes.
8. Draw and label the diagram of Calotes heart.
9. Name the types of Echinoderm larva.
10. Explain the kinesis behavior with examples.
11. Write about types of pheromones.
12. Describe the feeding site of attractant pheromones.

Q-3 (a) Describe the nervous system of Leech. (7)

(b) Write about sponging type of mouth parts. (3)

OR

Q-3 (a) Describe the excretory system of Leech. (7)

(b) Write about contact poison as insect control. (3)

Q-4 Describe: (a) Digestive system of Prawn. (6)

(b) Structure of ctenidium in Pila. (4)

OR

Q-4 Write notes on: (a) Male reproductive system of Pila. (6)

(b) Walking legs of Prawn. (4)

Q-5 (a) Describe the external characters of Calotes with labeled diagram. (7)

(b) Differentiate between poisonous and non poisonous Snakes. (3)

OR

Q-5 (a) Describe the brain of Calotes with labeled diagram. (7)

(b) Write a note on Snake venom. (3)

Q-6 Describe the types of learnt behavior in detail. (10)

OR

Q-6 Describe the structure of honey comb, organization and communication of Honey bees. (10)

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