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SEAT No. _____

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SARDAR PATEL UNIVERSITY

B.Sc. IV – SEMESTER EXAM-2019

ZOOLOGY, US04C ZOO 01

(INVERTEBRATE, VERTEBRATE AND ANIMAL BEHAVIOUR)

11/4/2019, THURSDAY

TIME: 10am to 1pm

MARKS: 70

Q-1 MULTIPLE CHOICE QUESTIONS.

(10)

1. In Leech, nephridia are present in _____ segments.
(a) 7 to 12 (b) 6 to 17 (c) 12 to 22 (d) 6 to 22
2. In Human, Filariasis is spread by female.....
(a) Anopheles (b) Culex (c) Bedbug (d) House fly
3. Which one of the following insects used as a medicine?
(a) Cochineal (b) Honey bee (c) Bombyx mori (d) All of these
4. In Prawn, statocyst present with in
(a) Antennule (b) First maxillipedes (c) Antenna (d) Uropods
5. Mode of respiration in Pila is
(a) Aerial (b) Aquatic (c) Both aerial & aquatic (d) Cutaneous
6. In Calotes, fertilization takes place in
(a) Cloaca (b) Oviduct (c) External (d) All of these
7. In Calotes, _____ type of teeth is present.
(a) Pleurodont (b) Acrodont (c) Thecodont (d) Heterodont
8. Snakes are sensitive to
(a) Air borne sound (b) Earth borne sound (c) Through eyes (d) None of these
9. When the pheromone helps to receiver it is called
(a) Allomones (b) Kairomones (c) Enzyme (d) Taxis
10. Diploid sterile female in Honey bee is known as
(a) Workers (b) Queen (c) Drones (d) Both a & b

(1)

(P.T.O.)

Q-2 ANSWER IN SHORT (ANY TEN). (20)

1. Draw and label the diagram of external features of Leech.
2. Write about Siphoning type of mouth.
3. Name any four productive Insects and their products.
4. Write about habit and habitat of Pila.
5. Name the cephalic appendages of Prawn.
6. Write about radula of Pila.
7. Write about digestive glands of Calotes.
8. Name the four poisonous & non poisonous Snakes.
9. Explain the renal portal & hepatic portal system in Calotes.
10. Write about Queen of Honey bee.
11. Explain irritability in animals with example.
12. Draw & labeled the diagram of Honey comb cells.

Q-3 Describe the digestive system of Leech with labeled diagram. (10)

OR

Q-3 (a) Write a note on Insect control by chemical method. (7)

(b) Describe the parasitic adaptations in Leech. (3)

Q-4 Describe: (a) Alimentary canal of Prawn. (6)

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

OR

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

(b) Male reproductive system of Pila. (4)

Q-5 (a) Describe the Structure & working of Calotes heart with labeled diagram. (6)

(b) Explain the types of locomotion in Snakes. (4)

OR

Q-5 (a) Describe the male urinogenital system of Calotes with labeled diagram. (6)

(b) Explain the poison apparatus of Poisonous Snakes. (4)

Q-6 Explain the types of pheromones and describe the mode of action of Pheromones. (10)

OR

Q-6 (a) Describe the various types of learnt behaviour. (7)

(b) Explain the instinct behaviour with example. (3)

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(2)