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No. of Printed Pages : 2

SARDAR PATEL UNIVERSITY

B.Sc., III-SEMESTER EXAM-2019

ZOOLOGY, US03CZ0021 (Invertebrata, Economic zoology & Toxicology)

DATE: 22-11-2019

TIME: 2pm to 5pm

DAY: FRIDAY

MARKS: 70

Q-1. MULTIPLE CHOICE QUESTIONS.

(10)

1. Which type of cells found in gemmules of sponges?
(a) Archeocytes (b) Histoblasts (c) Chromoblasts (d) Pinocytes
2. Hydra has no special structure for
(a) Respiration (b) Food capture (c) Attachment (d) Offence & defense
3. Number of tentacles in Hydra is
(a) 2-4 (b) 6-10 (c) 10-40 (d) 43-50
4. The intermediate host in the case of Liver fluke is
(a) Snail (b) Man (c) Pig (d) House fly
5. A temporary clitellum is formed in which segments of Hirudinaria ?
(a) 7 to 9seg. (b) 9 to 11 seg. (c) 11 to 13 seg. (d) 13 to 15 seg.
6. In Leech, the nature of excretion is
(a) Uricotelic (b) Ureotelic (c) Ammonotelic (d) None of these
7. How many appendages are present in cephalothoracic region of Prawn?
(a) 8 pairs (b) 5 pairs (c) 13 pairs (d) 19 pairs
8. Respiratory organs of Crustaceans are
(a) Gills (b) Lungs (c) General surface (d) Gills & general surface both
9. The name of lac producing insect is
(a) Periplaneta (b) Tachardia (c) Bombyx mori (d) Apis indica
10. In a Beehive, Worker honey bees are
(a) Fertile female (b) Sterile female (c) Fertile Male (d) Sterile male

(1)

(PTO)

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

1. Write about Ascon type of canal system in Porifera.
2. Write about habit and habitat of Hydra.
3. Explain the term polymorphism in Coelentrata with example.
4. Draw and labeled the diagram of external characters of Liver fluke.
5. Write about suckers of Leech.
6. Write about Flame cells of Liver fluke.
7. Explain the sexual dimorphism in Prawn.
8. Write about hepatopancreas of Prawn.
9. Enlist the sensory organs present in Prawn.
10. Name the steps followed for Pearl culture process.
11. Write about economic importance of Lakh(Lac).
12. Explain the term Toxicology and name the branches of toxicology.

Q-3. (a) Describe the types of cells present in epidermis of Hydra. (6)

(b) Explain the amoeboid type of locomotion in Protozoa. (4)

OR

Q-3. (a) Describe the asexual & sexual reproduction in Porifera. (6)

(b) Describe the types of locomotion in Hydra. (4)

Q-4. Describe the reproductive system of Liver fluke with neat and labeled diagram. (10)

OR

Q-4. Describe the digestive system of Leech in detailed with labeled diagram. (10)

Q-5. (a) Write a note on male & female reproductive system of Prawn. (6)

(b) Describe the biting & chewing type of mouth parts. (4)

OR

Q-5. (a) Write a note on types of insecticides. (6)

(b) Describe the walking legs of Prawn with labeled diagram. (4)

Q-6. (a) Describe the production of Silk. (5)

(b) Write a note on toxic effects of Automobiles. (5)

OR

Q-6. (a) Explain the methods of Bee keeping in Apiculture. (5)

(b) Write a note on toxic effects of Heavy metals. (5)

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