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SEAT NO: \_\_\_\_\_

No of printed pages: 2



**SARDAR PATEL UNIVERSITY**

**B.Sc., III-SEMESTER EXAM, NOVEMBER-2021**

**ZOOLOGY, US03CZOO21 (Invertebrata, Economic zoology & Toxicology)**

**DATE: 29-11-2021**

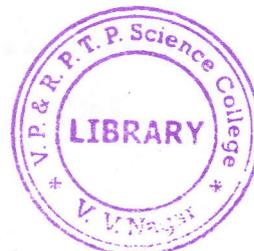
**TIME: 3pm to 5pm**

**DAY: Monday**

**MARKS: 70**

**Q-1. MULTIPLE CHOICE QUESTIONS. (10)**

1. Power of regeneration in Sponges is due to  
(a) Scleroblasts (b) Archeocytes (c) Amoebocytes (d) Myocytes
2. The Simplest type of canal system is found in  
(a) Diplodal type (b) Leucon type (c) Sycon type (d) Ascon type
3. The highest degree of polymorphism is occurs in  
(a) Termite (b) Certain ants (c) Certain Snails (d) Coelentrates
4. How many numbers of testes are present in Leech?  
(a) 10 pairs (b) 11 pairs (c) 12 pairs (d) 13 pairs
5. In Leech, nephridias are located in  
(a) 7 to 10 seg. (b) 6 to 22 seg. (c) 10 to 20 seg. (d) 7 to 18 seg.
6. Larva of Fasciola hepatica that bores into Snail is known as  
(a) Cercaria (b) Hexacanth (c) Redia (d) Miracidium
7. The sex of Prawn can be identified externally by observing these appendages  
(a) II- chelate legs (b) I- maxillipedes (c) I- Abdominal appendages (d) II- Non chelate legs
8. Which of the following insecticides considered as a contact poison of Insects?  
(a) DDT (b) BHC (c) Mineral oils (d) All of these
9. The wax gland of Honey bee is found in  
(a) Workers (b) Queen (c) Queen & Workers both (d) Drones
10. From which stage of Silk moth, the silk is obtained?  
(a) Egg (b) Larva (c) Pupa (d) Adult

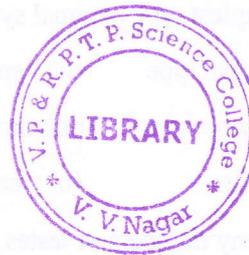


**Q-2. FILL IN THE BLANKS AND WRITE TRUE OR FALSE. (8)**

1. In Hydra, mucus for attachment is secreted by \_\_\_\_\_ type of cells.
2. The habit of Liver fluke is \_\_\_\_\_.
3. Mouth parts of Honey bees are \_\_\_\_\_ type.
4. To study about toxins, their effects and treatment is known as \_\_\_\_\_.
5. Down stroke and recovery stroke are the two phases of flagellar movement. (TRUE OR FALSE)
6. In Hirudinaria there is no special organ for respiration. (TRUE OR FALSE)
7. In Prawn, Green glands are associated with excretion. (TRUE OR FALSE)
8. The zoological name of Lac producing insect is Musca domestica. (TRUE OR FALSE)

**Q-3. ANSWER IN SHORT. (ANY TEN) (20)**

1. Name the types of locomotion in Protozoa.
2. Write about significance of canal system in Sponges.
3. Name the methods of locomotion in Hydra.
4. Write about habit and habitat of Leech.
5. Write about suckers of Leech.
6. Draw and label the diagram of Liver fluke.
7. Enlist the name of cephalic appendages present in Prawn.
8. Name the types of respiratory organs found in Arthropoda .
9. Write about habit and habitat of Prawn.
10. Write about the chemical composition of Pearl.
11. Write about economic importance of Prawn culture.
12. Explain the term Toxicology and name the branches of toxicology.



**Q-4. ANSWER IN DETAILED. (ANY FOUR, 8 MARKS OF EACH) (32)**

1. Describe the types of cells present in epidermis of Hydra with diagram.
2. Explain the types of asexual reproduction found in sponges.
3. Describe the reproductive system of Liver fluke with neat and labeled diagram.
4. Describe the digestive system of Leech with labeled diagram.
5. Write a note male and female reproductive system of Prawn.
6. Describe the different methods of insects control.
7. Write a note on Lac culture.
8. Write a note on toxic effects of fertilizers.

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