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Sardar Patel University
B.Sc. Semester third examinations
Zoology US03CZOO21
Invertebrate ,economic zoology and toxicology

Date : 13/6/2022 (Mon. day) Time: 12 to 2 pm Marks: 70

Q.1. Multiple choice questions.

10

- i. Which one of the following takes part in reproduction in sponges?

(a) archeocytes	(b) Thesocytes
(c) Myocytes	(d) choanocytes
- ii. Ascon type of canal system is found in?

(a) Grantia	(b) Leucosolenia
(c) Hylonema	(d) Euspongia
- iii. The cavity in the body of Hydra is?

(a) Hydocoel	(b) Haemocoel
(c) Coelom	(d) Coelenetron
- iv. Primary host of Fasciola is?

(a) Man	(b) Pig
(c) Sheep	(d) Dog
- v. Which is the first stage of larva in Fasciola?

(a) Miracidium	(b) Sporocyst
(c) Redia	(d) Cercaria
- vi. Hirudinaria is?

(a) Herbivorous	(b) Carnivorous
(c) Omnivorous	(d) Sangivorous
- vii. Sponging type of mouth pars is found in?

(a) Mosquito	(b) House fly
(c) Butter fly	(d) Bed bug
- viii. What is the means of respiration in insects?

(a) Integuments	(b) spiracular gills
(c) Tracheal gill	(d) All
- ix. Bee keeping is ?

(a) aquaculture	(b) Apiculture
(c) Sericulture	(d) None
- x. Commercial silk is secreted by the salivary gland of?

(a) Larva	(b) Pupa
(c) Adults	(d) All

Q2. Fill in the blanks. State true or false(T/F)

8x1=8

- i. Hydra belongs to the phylum.....
- ii. Leech feeds upon.....
- iii. Piercing and sucking mouth parts are in.....
- iv. We can get.....from pearl oyster.
- v. Sponges are animals not plants (T/F)
- vi. Number of testes in Hirudinaria are 10 pairs (T/F)
- vii. Insects are supposed to cause various diseases S(T/F)
- viii. Lac producing insect is BOMBYX. (T/F).

Q3. Short answer questions.write any ten.

10x2=20

- i. Describe structure of Hydra.
- ii. Define polymorphism.
- iii. Draw ascon types of canal system.
- iv. What are flame cells?
- v. How may pairs of testes are in Leech?
- vi. Describe how Leech moves.
- vii. Describe the biramous appendages in Prawn.
- viii. Name any three insects useful to man.
- ix. Give check list of respiratory organs in Arthropoda.
- x. What do you mean by pearl?
- xi. Write usage of silk.
- xii. Describe waggle dance.

Q4. Long questions. Attempt any four.

4x8=32

- i. Describe locomotion in hydra.
- ii. Describe sexual reproduction in Porifera.
- iii. Describe digestive system of Leech.
- iv. Write parasitic adaptation in liver fluke.
- v. Describe cephalic appendages in Prawn.
- vi. Describe methods of insect control.
- vii. Describe Prawn culture.
- viii. Write a note on toxic effects of heavy metals.