

SEAT No. _____

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Sardar Patel University

B.Sc., Semester Third examination, 2020

Invertebrate, Economic zoology and toxicology

US03CZ0021

Day: Thursday

Date: 31-12-2020

Time: 02:00 to 04:00 pm

Marks: 70

Q.1. Multiple choice questions:

[10]

- i. The most complex type of canal system is__
- (a) Rhagon type (b) leucon type
(c) Sycon type (d) Ascon type
- ii. Which cells of Hydra are totipotent?
- (a) Cnidoblast (b) Nutritive muscle cells
(c) Interstitials cells (d) Sensory cells
- iii. Hydra is__
- (a) Herbivorous (b) carnivorous
(c) Insectivorous (d) Omnivorous
- iv. Fasciola hepatica is found in__
- (a) Sheep intestine (b) sheep liver
(c) Sheep spleen (c) Sheep pancreases
- v. The saliva of Leech contains an anticoagulant called?
- (a) Histidine (b) Hirudin
(c) Heparine (d) Histamine
- vi. Hirudinaria is-----.
- (a) Herbivorous (b) carnivorous
(c) Omnivorous (d) sanguivorous
- vii. Green glands are associated with?
- (a) Excretion (b) Digestion
(c) Reproduction (d) Respiration
- viii. Pests of domestic animals are?
- (a) Fleas (b) Lice
(c) Bugs (d) Mosquitoes
- ix. Bee wax is?
- (a) Waste product of bees (b) Secreted by workers
(c) Waste product of honey synthesis (d) None of these
- x. Lac insect is a ?
- (a) Symbiont (b) Commensal insect
(c) Parasite (d) a and b both

Q.2. Fill in the blanks.

[08]

- i. conjugation occurs in__
 - ii. For attachment Fasciola has__
 - iii. The respiratory pigment in Prawn is__
 - iv. The venom of honey bee is used for treating of__
- State true or false**
- v. Coelenteron is the cavity found in Hydra body ?
 - vi. Botryoidal tissue is found in Ascaris?
 - vii. Zoological name of Prawn is Periplaneta?
 - viii. Sugar present in honey is cellulose?

Q.3. Short answer question. Write any ten.

[20]

- i. Draw hydra.
- ii. What is the level of body organization in sponges?
- iii. What are spicules?
- iv. Write a note on feeding mechanism in Prawn.
- v. Name a few pests harmful for crops.
- vi. Give an example of insect having piercing and sucking mechanism.
- vii. What is the mode of respiration in Fasciola?
- viii. What is hirudin?
- ix. How many testes are present in hirudinea?
- x. What is the role of queen bee in hive?
- xi. From which stage of silk moth silk is obtained?
- xii. What are the roles of worker bees?

Q.4. Long answer question. Write any four.

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- i. Describe polymorphism in coelenterates.
- ii. Describe habit, habitat and external features of Hydra.
- iii. Describe the structure of Fasciola and describe how it is adapted to parasitic mode of life?
- iv. Give an account of reproductive system of Leech.
- v. Describe the digestive system of Prawn.
- vi. Describe mouth parts in insects.
- vii. Describe pearl culture.
- viii. Write about household insects and their control.

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