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SARDAR PATEL UNIVERSITY
1st – SEMESTER EXAM
BIOLOGY, US 01 CBIO 01
(Invertebrate, Hemichordata & Applied zoology)

Date: 12-11-2013, TUESDAY

TIME: 2:30 TO 4:30p.m.

MARKS: 70

Q-1. MULTIPLE CHOICE QUESTIONS.

(10)

- 1 The behavior response of Amoeba towards chemical substances is called
(a) Thermotaxis (b) Phototaxis (c) Chemotaxis (d) Thigmotaxis
- 2 The cell can convert into any other types of cells in Hydra is
(a) Interstitial cell (b) Epithelial cell (c) Muscular cell (d) Gland cell
- 3 The asexual kind of reproduction found in Hydra is
(a) Sporulation (b) Budding (c) Multiple fission (d) All of these
- 4 The male genital pores in Earthworm is found in
(a) 9th segment (b) 13th segment (c) 15th segment (d) 18th segment
- 5 Suckers are present in scolex of Tapeworm
(a) 2 (b) 3 (c) 4 (d) 6
- 6 In Cockroach ommatidium is a
(a) Visual unit (b) Excretory unit (c) Reproductive unit (d) None of these
- 7 In Cockroach, alary muscles are present in connection with
(a) Digestive system (b) Wings (c) Legs (d) Heart
- 8 Metamorphosis in Insects is regulated by
(a) Heart (b) Corpora allata (c) Haemolymph (d) All of these
- 9 Excretory organs in Balanoglossus is
(a) Glomerulus (b) Nephridia (c) Malpighian tubules (d) All of these
- 10 During Pearl formation, nacre synthesis from the
(a) Shell (b) Mental epithelium (c) Osphradium (d) Salivary gland

Q-2. ANSWER THE FOLLOWING SHORT QUESTIONS (ANY TEN).

(20)

1. Explain the multiple fission in Amoeba
2. Name the cells present in ectodermis of Hydra.
3. Write about regeneration in Hydra.
4. Draw the label diagram of external characters of Earthworm.
5. Write a note on functions of body wall of Earthworm.
6. What are the preventive measures of malaria
7. Name the sensory organs present in Cockroach.
8. Sketch & label the diagram of Cockroach walking leg.
9. Explain the complete metamorphosis in Insects.
10. Mention the types of uses of different beneficial Molluscs.
11. Name the steps involved in artificial insertion of nucleus.
12. Give the functions of body wall of Balanoglossus.

P.T.O

- Q-3. Describe: (a) The nutrition in Amoeba. (6)
(b) Types of locomotion in Hydra. (4)

OR

- Q-3. Describe: (a) Sexual reproduction in Hydra. (6)
(b) External characters of Amoeba. (4)

- Q-4. (a) Describe the digestive system of Earthworm (7)
(b) Describe Schizogony of plasmodium in Liver cells. (3)

OR

- Q-4. (a) Describe the male reproductive organs of Earthworm. (7)
(b) Draw and label the diagram of nervous system of Earthworm. (3)

- Q-5. (a) Describe the digestive system of Cockroach. (7)
(b) Write a brief note on mouth parts of Cockroach. (3)

OR

- Q-5. (a) Describe the female reproductive system of Cockroach. (7)
(b) Write a note on function of cuticle in Cockroach. (3)

- Q-6. Draw a labeled diagram and describe the habit, habitat and external morphology of Balanoglossus. (10)

OR

- Q-6. Describe the structure and function of water vascular system of Echinoderms with labeled diagram. (10)

***** Best of Luck *****