

[38]

Sardar Patel University**M. Sc. Integrated Biotechnology Examination, First Semester****Monday, 24th October, 2016****10:00 a.m. to 01:00 p.m.****PS01CIGB04: Animal Sciences****Total Marks: 70**

- Notes: - 1) Figures to the right indicate marks.
2) Draw neat and labeled diagram, wherever necessary.

Q.1 Choose the Correct Answers of the Following. [08]

1. Madreporite present in _____ phylum animals.
(a) Mollusca (b) Echinoderm (c) Arthropod (d) Protozoa
2. Silver fish is _____.
(a) Chordate (b) Fish (c) Echinoderm (d) Arthropod
3. Single layer of cells are found in _____.
(a) simple epithelium (b) compound epithelium
(c) smooth epithelium (d) connective epithelium
4. Skeletal muscles are also known as _____.
(a) cardiac (b) striated (c) smooth (d) None of these
5. Closed type of circulatory system is observed in _____.
(a) cockroach (b) earthworm (c) leech (d) human
6. Which is the example of sexual mode of reproduction?
(a) Multiple Fission (b) Conjugation (c) Binary Fission (d) None of these
7. Who play very important role in the amoeboid movement?
(a) cytoskeletal (b) cytonuclear (c) cytoblastcells (d) cytoorganisms
8. Which of the following is mainly responsible for the extinction of wild life?
(a) pollution of air and water (b) Hunting of flesh
(c) Destruction of Habitats (d) All of these

Q.2 Answer the following in short. (Attempt Any Seven) [14]

1. Narrate the characters of class Gastropoda.
2. Give the characters of Phylum echinodermata.
3. Outline the distinguishing characters of Class Amphibia and Phasmdia.
4. Draw a flowchart of classification of Epithelium tissue.
5. Draw a labeled diagram of cardiac muscles and narrate function of it.
6. What is respiration? Enlist the respiratory centers in brain.
7. Enlist the functions of Blood.
8. Mention the symptoms of malaria.
9. What is Biosphere reserve? Enlist the zone of Biosphere reserve.

①

[P.T.O.]

- Q.3 (A) Describe the general characters of class sarcodina, mastigophora and ciliata with examples. [06]
- (B) Mention the general characters of phylum Annelida and classify it upto classes giving examples. [06]
- OR**
- (B) Describe the general characters of phylum Reptilia. [06]
- Q.4 (A) Give the morphological and physiological classification of neuron with suitable diagram. [06]
- (B) Explain the structural features of hyaline cartilage and aerolar connective tissue with suitable diagram. [06]
- OR**
- (B) Describe any three simple epithelial tissues with suitable diagram. [06]
- Q.5 (A) Explain different types of Blood cells with suitable diagram. [06]
- (B) Describe tracheal system in Cockroach. [06]
- OR**
- (B) Give an account on Ammonotelism, Ureotelism and Uricotelism. [06]
- Q.6 (A) Mention the symptoms, prevention and control measures of ADIS. [06]
- (B) Write a note on direct use of Mammals. [06]
- OR**
- (B) Write down any two types for animal breeding. [06]
