

Sardar Patel University

M. Sc. Integrated Biotechnology Examination, First Semester

Tuesday, 5th April, 2016

02:30 p.m. to 05:30 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. Claitellum is present in animals belonging to the phylum _____.
(a) coelenterata (b) arthropoda (c) annelida (d) mollusca
2. Amoeba belongs to the class _____.
(a) suctoria (b) mastigophora (c) sarcodina (d) ciliata
3. Striated and non-voluntary muscle is _____.
(a) skeletal (b) cardiac (c) smooth (d) cardiac & smooth
4. A group of similar cells with similar functions known as _____.
(a) organs (b) tissue (c) organelle (d) system
5. Animals excreting ammonia are known as _____.
(a) ureotelic (b) urecotelic (c) ammonotelic (d) none
6. Which is the example of symbiotic nutrition?
(a) Mosquito and human (b) E.coli and human
(c) Ascaris and human (d) Trypanosoma and human
7. Malaria is a _____ disease.
(a) viral (b) bacterial (c) protozoan (d) helminthes
8. Leucocytes show _____ type of movement.
(a) amoeboid (b) ciliary (c) flagellary (d) a & b

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

1. Narrate the distinguishing characters of Phylum protozoa.
2. Give the characters of Class Mammalia.
3. Draw the flow chart of different types of epithelial tissues.
4. Draw a neat and labeled diagram of neuron
5. Define herbivores and carnivores types of holozoic nutrition.
6. Draw neat and labeled diagram of respiratory centers in brain.
7. Highlights the agricultural uses of mammals.
8. Define the term Sanctuary and national park.
9. Enlist the objectives of animal breeding.

Q.3 (A) Enlist the general characters of phylum Porifera. [06]

(B) Mention the general characters of class Amphibia with examples. [06]

OR

(B) Describe the general characters of phylum Echinodermata. [06]

Q.4 (A) Describe squamous and columnar epithelial tissue with a neat and labeled diagram and discuss its functions. [06]

(B) Explain the structural features of aerolar and white fibrous connective tissue with suitable diagram. [06]

OR

(B) Tabulate the differences between striated and non-striated muscles with suitable diagram. [06]

Q.5 (A) Explain structure and composition of Blood. [06]

(B) What is osmoregulation? Explain water and solute regulation in marine animals. [06]

OR

(B) Describe Respiration in cockroach suitable diagrams. [06]

Q.6 (A) Briefly explain the economic important of mammals. [06]

(B) Mention the symptoms, treatment and preventive measurements for Ascariasis. [06]

OR

(B) What is wildlife? Write down values of wildlife. [06]
