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Sardar Patel University
M.Sc. (Integrated) Biotechnology
Semester-I Examination 2012
Wednesday, 5th December, 2012
10:30 am to 1:30 pm
Animal Science – PS01CIGB04

Total Marks: 70

Note :

- (i) Figures to the right indicate marks.
(ii) Draw neat and labelled diagrams wherever necessary.

Q1 Multiple Choice Questions.

[08]

- Sponges belong to the phylum
(a) Porifera (b) Protozoa
(c) Mollusca (d) Coelenterata
- _____ class is devoid of locomotory organelles.
(a) Rhizopoda (b) Flagellata
(c) Ciliata (d) Sporozoa
- Skeletal muscles are also known as
(a) Striated & involuntary (b) Non-striated & involuntary
(c) Striated & voluntary (d) Non-striated & voluntary
- A collection of cells having similar origin, structure & function is known as a/an
(a) Tissue (b) Gland
(c) Organs (d) None of these
- Internal buds are known as _____
(a) Gemmules (b) Flowers
(c) Colony (d) None of the above
- Longitudinal binary fission is observed in
(a) Paramoecium (b) Amoeba
(c) Euglena (d) None of the above
- Eosinophils are characterized by _____ nucleus.
(a) multilobed (b) bilobed
(c) bean shaped (d) none
- _____ is a protozoan disease.
(a) Malaria (b) AIDS
(c) Anthrax (d) Ascariasis

[P.T.O.]

QII Answer the following in short. (Attempt any seven)

[14]

1. Mention the distinguishing characters of class Reptilia.
2. Give an outline classification of Phylum Mollusca.
3. Draw neat and labelled diagram of areolar tissue.
4. State the location and functions of simple epithelial tissues.
5. Define Parasitic nutrition with examples.
6. What are the function of neutrophils?
7. What is conjugation? Give an example.
8. What is cross breeding?
9. Summarize the preventive measures of AIDS.

QIII a) Enlist the general characters of Phylum Protozoa. Classify it up to class and give the examples of each class.

[06]

b) Mention the characteristic features of Phylum Mollusca.

[06]

OR

b) Give an account on Acraniata.

[06]

QIV a) Discuss compound Epithelial tissues in detail.

[06]

b) Explain the structural features of Neuron with suitable diagram and Describe their morphological classification.

[06]

OR

b) Write a note on :- Bones.

[06]

QV a) Describe the tracheal system of Cockroach with suitable diagram.

[06]

b) Define 'Homeostasis'. How does an animal regulate water and solute balance in fresh water and terrestrial environment.

[06]

OR

b) Discuss Binary fission as an asexual mode of Reproduction.

[06]

QVI a) Define Locomotion. Elaborate ciliary, amoeboid and muscular movement with examples.

[06]

b) What is Wild life? Discuss the reasons behind vanishing wild life and explain the methods of wild life conservation.

[06]

OR

b) Give symptoms, prevention and control measures of Malaria.

[06]