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FIRST YEAR (B.Sc.Biotechnology)
24BIO12103: ANIMAL SCIENCE
(Semester II)

Program: B.Sc.Biotechnology (04)
Program Specific: Biotechnology
Course Type: Core
Paper:

Credits: 2
Time: 2 Hours
Max. Marks: 30
SET: A

Instructions to the candidate:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Draw a well labelled diagram wherever necessary.

Q1) Attempt ANY SIX of the following:

[6 X 2 = 12]

- a) Explain simple epithelial tissue.
- b) What is parasitism?
- c) Write the characteristics and examples of phylum Mollusca.
- d) Mention the role of salivary amylase.
- e) Define endocrine glands with examples.
- f) Comment on class Aves.
- g) Enlist two benefits of vermiculture.
- h) Justify, *Hydra* as a model organism.

Q2) Attempt ANY THREE of the following:

[3 X 4 = 12]

- a) Write a short note on exchange of gases in tissues.
- b) Differentiate between striated and non-striated muscles.
- c) Mention the hormones secreted by thyroid and parathyroid glands.
- d) With a neat labelled diagram explain the structure of heart.
- e) Discuss on social organization in honey bee.

Q3) Attempt ANY TWO of the following:

[2 X 3 = 06]

- a) Describe spermatogenesis.
- b) Draw structure of a neuron and explain nerve impulse conduction.
- c) Describe life cycle of *Fasciola hepatica*.
- d) With the help of a diagram explain oxygen dissociation curve.
