

B.N.BANDODKAR COLLEGE OF SCIENCE,THANE
F.Y.B.Sc A.T.K.T AND FAILURE EXAMINATION, FEBRUARY 2011

Subject: Zoology
Paper – I

Duration: 3 hrs

Total marks: 90

- N.B. 1. All questions are compulsory
2. Figures to the right indicate full marks
3. Draw neat and labeled diagrams wherever necessary
4. Answers to the **Two** sections should be written in same answerbook.

SECTION – I

- | | |
|--|--------|
| 1. A. Define: | 3 |
| i) Asymmetry | |
| ii) Coelom | |
| iii) Triploblastic condition | |
|
B. Answer briefly: (Any three) |
12 |
| i) Euglena | |
| ii) Spicules | |
| iii) Hydra | |
| iv) Planaria | |
| v) Lobster | |
|
2. A. Draw neat labelled diagram of ruminant stomach |
3 |
|
B. Write short notes on: (Any three) |
12 |
| i) Locomotion in amoeba | |
| ii) Trachea and spiracle as respiratory organ | |
| iii) Lung of man | |
| iv) Single and double circulation | |
| v) Heart of fish | |
|
3. A. Write a note on pond as an ecosystem |
3 |
|
B. Explain briefly: (Any three) |
12 |
| i) Mutualism | |
| ii) Food chain | |
| iii) Impact of human activity on water cycle | |
| iv) Parasitism | |
| v) Carbon-dioxide cycle | |

SECTION – II

4. A. Describe Chiton 3
- B. Write short notes on: (Any three) 12
- i) Sea urchin
 - ii) Scales in fish
 - iii) Salamander
 - iv) Beak in birds
 - v) Shrew
5. A. Explain the term ureotelic excretion 3
- B. Answer in brief: (Any three) 12
- i) Viviparity
 - ii) Structure of mammalian sperm
 - iii) Structure of Bowman’s capsule
 - iv) Structure of nerve cell
 - v) Invitro fertilization
6. A. Explain instrumental learning with the help of an example 3
- B. Write short notes on : (Any three) 12
- i) Maturational behaviour with an example
 - ii) Bird vocalization
 - iii) Innate behaviour
 - iv) Habituation and generalization
 - v) Insight learning