

B. N. Bandodkar College of Science, Thane
F.Y.B.Sc. A.T.K.T. / Failure Examination Aug. 2011.

Subject - Zoology

Paper – I

Duration-3 hrs.

Max. Marks-90.

1. All questions are compulsory.
2. Draw neat and labeled diagrams wherever necessary.
3. Figures to the right indicate full marks.
4. Answer to both sections should be written in the same answer book.

Section - I

- Q. 1. a) Draw neat and labeled diagram of parapodium of Nereis (3)
b) Write short notes on (any three) (12)
- 1) Symmetry in levels of organization
 - 2) Conjugation
 - 3) Leucosolenia
 - 4) Characters of Class - Crustacea
 - 5) Obelia colony
- Q.2. a) Differentiate between open circulation and closed circulation. (3)
b) Write short notes on (any three) (12)
- 1) Amoeboid movement.
 - 2) Animals without digestive tract.
 - 3) Lungs of human.
 - 4) Lymph
 - 5) Heart of fish
- Q.3. a) Explain the term antibiosis. (3)
b) Write short notes on (any three) (12)
- 1) Carbon cycle.
 - 2) Role of producers in an ecosystem
 - 3) Mutualism.

- 4) Food chain.
- 5) Impact of human activities on water cycle.

Section II

- Q.4. a) Write any three characteristic of Phylum Echinodermata (3)
b) Write short notes on (any three) (12)
- 1) Balanoglossus
 - 2) Shark as cartilagenous fish
 - 3) Chameleon.
 - 4) Toes in birds
 - 5) Kangaroo
- Q.5. a) Draw neat and labeled diagram of Bowman's capsule. (3)
b) Write short notes on (any three) (12)
- 1) Structure of Human sperm
 - 2) Flame cell
 - 3) Oviparity and viviparity
 - 4) Irritability in Paramecium
 - 5) Classification of animals on the basis of Nitrogenous waste.
- Q.6. a) Explain juvenile behavior. (3)
b) Write short notes on (any three) (12)
- 1) FAP
 - 2) Batesian mimicry
 - 3) Habituation
 - 4) An example of innate behaviour
 - 5) Filial imprinting