

B.N.Bandodkar College of Science, Thane

T.Y.B.Sc -Preliminary examination- Feb 2012

Zoology Paper I

Duration: 3Hrs

Total Marks: 100

1. All questions are compulsory.
2. All questions carry equal marks.
3. Illustrate the answers with diagrams wherever necessary.

Q1. Write short notes on (any four)

- a. Eye of Sepia.
- b. Ink sac.
- c. Hair.
- d. Metanephros.
- e. Haemochorial placenta.
- f. T.S of mammalian liver.

Q2. Describe (any Two): -

- a. Respiratory system of sepia
- b. Nervous system of shark
- c. Urinogenital system of shark

Q3. Write briefly on (any two): -

- a. Digestive tube and its evolution in birds and mammals.
- b. Gills of cartilaginous and bony fishes.
- c. Aortic arches in fish and frog.

Q4. Explain (any two) :-

- a. Gametogenesis.
- b. Extraembryonic membrane
- c. Cell differentiation and embryonic stem cells.

Q5. Describe (any two) of the following: -

- a. Hormonal disorders of pituitary gland
- b. Histology of pancreas.
- c. Functions of thyroid hormones.