

B.N.Bandodkar College of Science, Thane

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

Zoology Paper II

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):- 20

1. Effect of temperature on enzyme activity.
2. Aestivation.
3. ECG
4. Leucopoiesis
5. Functions of Plasma proteins
6. Characteristics of precipitation reaction

Q2. Give an account of (any Two) 20

- a) Catecholamines as neurotransmitters.
- b) Competitive and non-competitive inhibition of enzymes.
- c) Chemical structure of enzymes.

Q3. Describe briefly (any two) 20

- a) Heat production in animals.
- b) Osmotic and ionic regulation while living in Hyposmotic environment.
- c) Endocrine regulation of male reproductive system.

Q.4 Answer briefly (any Two)

- a) ESR
- b) Haemoglobin – structure and functions
- c) Bleeding and clotting time

Q.5 Describe briefly (any two)

- a) Radial immunodiffusion -Mancini method
- b) IgM
- c) Passively acquired immunity- Natural and artificial,