

B.N. Bandodkar College of Science, Thane

S.Y.B.Sc. -Second Term End Examination March- 2012

Zoology

Paper II

Duration 2hrs

Max Marks-60

- 1) All Questions are compulsory.
- N.B. 2) Draw neat and labeled diagrams wherever necessary
3) Figures to right indicate full marks.
- Q.1) a) Answer the following. 03
1) What is vaccine?
2) Define database.
3) What is translocation of chromosome?
- b) Write short notes on (any three). 12
1) Mention different research areas of cell tissue culture
2) Method of producing Golden rice
3) Post zygotic isolating mechanism
4) FASTA
5) Scope of bioinformatics
- Q2) a) Answer the following. 03
1) Define - restriction enzymes
2) What is cDNA library?
3) What is somatostatin?
- b) Write short notes on (any three). 12
1) Bacteriophage vectors
2) Optimum conditions for tissue culture
3) Selection, screening and preparation of donor genetic material.
4) Biotin labeling of Nucleic acids
5) Primers.
- Q 3) a) Answer the following. 03
1) Write a full form of : http
2) Cry I Protein is from which bacteria?
3) Define proteomics
- b) Write notes on (any three) 12
1) Internet
2) NCBI
3) Algae in biosorption of heavy metals
4) Uses of Bt toxin.
5) DNA sequencing by Sanger's method

PTO

Q.4) a)Describe characteristic of microevolution.

03

b) Write short notes on(any three)

12

- 1)Genetic and geographical variation
- 2)Macroevolution
- 3)Sympatric speciation
- 4)Natural selection in sickle cell anaemia.
- 5)Aneuploidy
