

B.N. Bandodkar College of Science, Thane

Second Semester End Examination March 2012(Additional)

F.Y.B.Sc

USZO202

Duration 2 hrs

**Max Marks-60
Marks**

N.B. 1) All Questions are compulsory.

2) Figures to right indicate full marks.

- Q.1) A) Answer the following. 03**
1) What is the function of DNA?
2) Define purines.
3) What is Kink?
- B) Write short notes on: (any three) 12**
1) Saturated fatty acids
2) m - RNA
3) Properties of fatty acids
4) Cholesterol
5) Watson and Crick model of DNA
- Q2) A) Define- 03**
1) Transgenic animals.
2) Gene therapy.
3) Bioaugmentation.
- B) Write short notes on: (any three) 12**
1) Fate of spilled oil and its impact on the environment.
2) Method for producing human insulin using genetic engineering.
3) Methods for SCID gene therapy.
4) Procedure for cloning of dolly.
5) Method for producing a transgenic sheep containing human gene a-1 antitrypsin.
- Q 3) A) Explain LUCA the common ancestor. 03**
- B) Write short notes on: (any three) 12**
1) Himalayan biodiversity
2) RNA world theory.
3) Competitive exclusion
4) Protenoid model
5) Human induced evolutionary changes.
- Q.4) A) Answer the following. 03**
1) Give examples of vegetable wax
2) Define Biopiles

PTO

3) What is ecological foot print?

B Write short notes on: (any three)

12

- 1) Biological roles of lipids.
- 2) Bioremediation.
- 3) Differences between DNA and RNA.
- 4) Biodegradation.
- 5) Natural selection in action by giving example of moth Betularia.
