

B.N.BANDODKAR COLLEGE OF SCIENCE, THANE
F.Y.B.Sc. FIRST SEMESTER EXAMINATION OCTOBER 2011
USZO102 Additional Exam.

Duration: 2Hrs.

Marks: 60

N.B.:

1. All questions are compulsory.
2. Draw diagrams wherever necessary.
3. All questions carry equal marks.

Q.1a Answer the following. 03

1. Define Functional group.
2. What is globular protein?
3. Explain glycosidic bond.

Q.1b Write short notes on: (Any three) 12

1. Monomer
2. Protein conformation
3. Biological role of carbohydrates.
4. Peptide bond
5. Glycogen

Q.2a Answer the following. 03

1. Define recombinant biotechnology.
2. What is autoclave?
3. Explain bio – detergent.

Q.2b Write short notes on: (Any three) 12

1. Scope of biotechnology.
2. Centrifuge.
3. Process of making wine.
4. Advantages of immobilization of enzymes.
5. Safe handling of basic laboratory instruments.

Q.3a Answer the following. 03

1. Draw symbol of pedigree chart & explain.

Q.3b Write short notes on: (Any three) 12

1. Mendelian inheritance in monohybrid crosses.
2. Incomplete dominance.
3. Double dominant epistasis.
4. Inheritance of kappa particle in paramecium.
5. Effect of temperature on heredity.

Q.4a Answer the following. 03

1. Define isomer.
2. What is yogurt?
3. Explain term recon.

Q.4b Write short notes on: (Any three) 12

1. β -pleated sheet
2. Process of making beer.
3. Mendelian phenotypic [dominant] traits in humans
4. Achievements in medical biotechnology.
5. Haemophilia