

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

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. Explain prosthetic group.
2. What is peptide bond.
3. Define monosaccharides.

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

1. Polymer
2. Biological role of proteins.
3. Starch
4. α - helix
5. Haworth projection

Q.2a Answer the following. 03

1. What is cheese?
2. Write full form of PAGE.
3. Explain bio remediation.

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

1. Process of making bread.
2. Sterilization techniques.
3. Achievements in India with reference to biotechnology.
4. Immobilization of an enzyme.
5. Bio-detergents

Q.3a Answer the following. 03

1. Describe co- dominance in ladybird beetle.

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

1. Recessive epistasis
2. Colorblindness
3. Mendelian Dihybrid cross.
4. Coiling of shell in snail Limnea.
5. Modern definition of gene.

Q.4a Answer the following. 03

1. What is the role of organic phosphates?
2. Define pasteurisation.
3. What is Brachydactyly?

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

1. Stereoisomerism
2. Autoclave
3. Explain effects of internal factors on heredity
4. Primary structure of protein.
5. Double dominant epistasis.