

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.
