

B. N. BANDODKAR COLLEGE OF SCIENCE, THANE

FIRST TERM-END EXAMINATION- OCTOBER - 2011

S.Y.B.Sc

MICROBIOLOGY : PAPER 2

Duration 2 hrs		Max Marks-60
N.B.	1) All Questions are compulsory. 2) Figures to right indicate full marks.	Marks
Q.1)	A) Define the following 1 Wobble hypothesis 2 Median 3 Peptide bond	3
Q.1)	B) Answer the following: (any three) 1 Explain the different factors that would affect selection of method for estimation of a biomolecules. 2 Write a note on characteristics of genetic code 3 Explain the process of translocation in protein synthesis 4 Write a note on frequency curve 5 Write a note on t-test.	12
Q.2)	A) Define any three of the following. 1 Universal solvent 2 Covalent bond 3 Disulphide bond 4 polysaccharide	3
Q.2)	B) Answer the following (any 2) 1 Describe the importance of hexoses. 2 What are the important properties of water in cell environment? 3 Explain the non- covalent bonds with suitable examples.	12
Q 3)	A) Give significance of 1 Promoters in transcription. 2 Polysome. 3 Terminators.	3

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- Q 3) B) Answer the following (any three) 12
- 1 Explain the process of Elongation and Termination in prokaryotic transcription.
 - 2 Write a note on RNA splicing.
 - 3 Describe the process of initiation of translation.
 - 4 Write a note on Protein sorting in the cell.
 - 5 Explain Termination of translation.
- Q.4) A) Define 3
- 1 Standard deviation
 - 2 Sample
 - 3 Reducing sugars
- Q.4) B) Answer the following (any three) 12
- 1 Explain the general protocol for extracting DNA from bacterial cells.
 - 2 Explain DNSA method of estimating reducing sugars.
 - 3 Discuss different methods of estimating nucleic acids.
 - 4 Write a note on extraction of lipids by Soxhlet method.
 - 5 Write a note on Histogram
