

**B. N. BANDODKAR COLLEGE OF SCIENCE, THANE**  
**SECOND TERM-END EXAMINATION- MARCH - 2012**

**S.Y.B.Sc**

**MICROBIOLOGY : PAPER III**

<b>Duration 2 hrs</b>	<b>Max Marks-60</b>
N.B. 1) All Questions are compulsory.	Marks
2) Figures to right indicate full marks.	
Q.1) A Answer the following	3
1 Give significance of phosphatase test of milk.	
2 Define : partition coefficient	
3 Define algalization	
Q.1) B Answer the following: (any three)	12
1 Write a note on vermicomposting	
2 Write a note on sources of contamination of milk	
3 Explain affinity chromatography	
4 Explain density gradient centrifugation	
5 Schematically explain cheddar cheese production	
Q2) A Answer the following:	3
1 Chromatography	
2 Centrifugation	
3 Adsorption	
Q2) B Attempt of the following: (any two)	12
1 Write a note on Differential centrifugation	
2 Give an account on High performance liquid chromatography	
3 Explain :Ion exchange chromatography	
4 Write a note on Gas chromatography	
5 Give the working and applications of analytical centrifugation	
Q 3) A Answer the following	3
1 Give significance of Yogurt	
2 What is milk ash?	
3 Mention temperature and time duration for LTHT	
Q 3) B Answer the following: (any three)	12
1 How would you prepare butter	
2 How would you perform MBRT and give its advantages and disadvantages	
3 Write a note on normal and abnormal flora found in milk	
4 How would you prepare sweet condensed milk?	
5 Write a note on platform test for milk	

P.T.O.

- Q 4) A Answer the following 3
- 1 Define Curing
  - 2 Give examples of Methanogens
  - 3 Give examples of Carriers used in manufacturing of biofertilizers
- Q.4) B Answer the following: (any three) 12
- 1 Discuss applications of biosensors
  - 2 Write a note on bioleaching
  - 3 Discuss Biochips
  - 4 Importance of monoclonal antibodies
  - 5 Justify Biotechnology is a interdisciplinary science

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