AC-2971
B. Sc. (Microbiology) (Sem. II) Examination
April / May - 2015
MB-04 : Chemistry of Microorganisms

Time : 2 Hours] [Total Marks : 50

Instructions :
(1) Fill up strictly the details of signs on your answer book.

(2) Figures to the right indicate full marks of the question.

(3) Draw neat and labelled diagrams whenever necessary.

1 Give the specific answers 10

1) Define enantiomers with suitable examples.
2) Define: a) Iodine number, b) Saponification number.
3) How saturated fatty acids are differing from unsaturated fatty acids?
4) What are non standard amino acids? Give two examples.
5) What is Chargaff’s rule?

2 Answer the followings (Any two) 12

1) Discuss the structure and functions of 3 biochemically important disaccharides.
2) Write about the tests to check purity of fats and oils.
3) Write detail account on physical properties of aminoacids.
3 Answer the followings (Any two)  
1) Name different RNAs, and discuss their structure.  
2) Describe the classification of protein with suitable examples.  
3) Discuss the fatty acids in detail.  

4 Write Short Notes on (Any three)  
1) Different forms of DNA  
2) Bonds responsible for protein structure  
3) Functions of carbohydrates  
4) Triglycerides