

B.Sc. Examination Oct-Nov - 2015

Semester - III

Paper Name: Mi-302-Introduction to Physiology & Biochemistry

Paper Code: 3792

Time: 2:30 Hours

Total Marks: 70

**Instructions:** (a) Figure to the right indicates total marks of respective question.  
(b) Draw neat, clean and labeled diagram wherever necessary.

- 1.(a) Describe: Classification of Protein in detail. 10  
1.(b) Describe: Functions of Vitamins. 04

OR

- 1.(a) Describe: Classification of Lipids in detail 10  
1.(b) Write a short note on: Bacterio-chlorophylls. 04  
10

- 2.(a) Describe: Glycolysis. 04  
2.(b) Write a short note on: Anaploratic reaction. 04

OR

- 2.(a) Describe: Kreb's Cycle. 10  
2.(b) Write a short note on: ED pathway. 04

- 3.(a) Describe: Typical growth curve of microorganism. 10  
3.(b) Write a short note on: Continuous growth. 04

OR

- 3.(a) Discuss: Factors affecting the growth of Bacteria. 10  
3.(b) Write a short note on: Ideal disinfectants. 04

- 4.(a) Describe: Structure and types of RNA. 10  
4.(b) Differentiate between Disinfection and Sterilization. 04

OR

- 4.(a) Define Reproduction. Describe different modes of cell division. 10  
4.(b) Write a short note on: Properties of Carbohydrates. 04

- 5.(a) Describe: HMP. 10  
5.(b) Describe: Phenol Coefficient. 04

OR

- 5.(a) Describe: Physical and Chemical agents for the control of microorganism in vitro. 10  
5.(b) Write a short note on: Direct count technique and Plate count technique of cell counting. 04