



A-3000

B. Sc. (Sem. III) (Microbiology) Examination

March/April – 2015

MB-05 : Control of Microorganisms

Time : 2 Hours]

[Total Marks : 50

Instructions :

(1)

नीचे दृशायेव निशानीवाणी विगतो उत्तरवाही पर अवश्य लपवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
B. Sc. (Sem. III) (Microbiology)

Name of the Subject :
MB-05 : Control of Microorganisms

Subject Code No. : 3 0 0 0 Section No. (1, 2,...): Nil

Seat No. :
[] [] [] [] [] []

Student's Signature

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

(3) Draw neat and labelled diagrams whenever necessary.

1 Give specific answers : 12

- Give the temperature and pressure applicable in autoclave. What is the role of pressure?
- Define Plasmolysis and plasmoptysis.
- What is cold sterilization? Where is it applicable?
- Define:sporicide, microbiostatic.
- Give two examples of detergents used as antimicrobial agent.
- Give important features of QAC as antimicrobial agent.

2 Explain/comment on any two of the following : 12

- Different physical agents for control of microorganisms have different limitations.
- Various types of radiations have different applications and different alieations.
- Mode of action of different halogens.

- 3** Discuss any two of the following : **16**
- (a) Discuss the important characteristics of an ideal antimicrobial chemical agent.
 - (b) Describe temperature at and below 100°C as physical agent of control.
 - (c) Discuss different aldehydes with their mode action and practical applications.
- 4** Write short notes on any two of the following : **10**
- (a) Phenol and phenolic compounds.
 - (b) Conditions influencing antimicrobial action.
 - (c) Steam under pressure Vs dry heat as sterilizing agent.
-