

Seat No. : _____

AD-113

April-2015

B.Sc., Sem.-VI

**Paper-308 : Biochemistry
(Advanced Microbiology)**

Time : 3 Hours]

[Max. Marks : 70

1. (a) Write a short note on factors that affect sterilization. **14**
(b) Write mode of action of Chlorine and Phenol as disinfectants.

OR

Write a note on any **one** of the following : **14**

- (a) Mode of action and uses of Beta propiolactone and ethylene oxide.
(b) Phenol Co-efficient.

2. Write a note on any **two** of the following : **14**
(a) Isolation of pure culture and its storage
(b) Thermophiles and Psychrophiles
(c) Factors affecting growth

3. Explain the following :
(a) Typhoid OR Tuberculosis **8**
(b) Mode of action and uses of Sulpha drug OR Chloramphenicol **6**

4. Write a note on following : **14**
(a) Fermentation as basic process in microbiology
(b) Production of vaccine

OR

Write a note on following :

- (a) Types of reactors and its uses. **7**
(b) Fed batch culture Bioreactor. **7**

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P.T.O.

5. Give definition / explain term and give one use / importance of followings :

14

- (1) SPC
 - (2) Chemotherapeutic index
 - (3) Sterilization
 - (4) Tyndallization
 - (5) Antiseptic
 - (6) Pasteurization
 - (7) Nutrient agar
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