

Printed Pages : 3



PH242

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 150402

Roll No.

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B. Pharm

(SEM.IV) THEORY EXAMINATION, 2014-15

PHARMACEUTICAL MICROBIOLOGY

Time : 3 Hours]

[Total Marks : 80

- Note:** (1) Attempt ALL questions
(2) All questions carry equal marks

1 Answer any four: 4x4=16

- (a) Discuss the role of microbiology in medical industry.
- (b) Draw a neat and labeled diagram of gram positive bacterial cell.
- (c) Write short note on bacterial growth cycle.
- (d) What do you understand by the term transduction ?
- (e) Write down the principle of sterilization of sera.

2 Answer any four: 4x4=16

- (a) Define staining. Describe the role of various agents used in gram staining.
- (b) Enlist the various culture techniques used for isolation of drug resistant microbes and describe any one of them.
- (c) Explain the preparation and sterilization of Nutrient agar media.
- (d) Write a note on electron microscopy.
- (e) State the differences between a gram positive and gram negative bacteria.

3 Answer any four: 4x4=16

- (a) What do you mean by pasteurization?
- (b) Enlist the various methods of sterilization by physical methods explaining any one method in detail.
- (c) Discuss any one test for determining the potency of disinfectant.
- (d) How will you validate an autoclave?
- (e) What do you mean by D value ?

4 Answer **any two**: **2x8=16**

- (a) Discuss sterility test as per IP.
- (b) Write a short note on environmental microbiology.
- (c) How will you perform sterility test of antibiotic solution ?

5 Answer **any two**: **2x8=16**

- (a) Discuss in detail the method of assay of chloramphenicol as per IP.
 - (b) Give an overview of filtration as an agent of sterilization.
 - (c) Describe the mechanism of functioning of HEPA filter in a pharma industry.
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