



Printed Pages : 2

PHAR – 242

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

PAPER ID : 5105

Roll No.

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B. PHARM.

(SEM. IV) EXAMINATION, 2006-07

PHARMACEUTICAL MICROBIOLOGY

Time : 3 Hours]

[Total Marks : 80

- Note :**
- (1) Attempt **all** the questions.
 - (2) All questions carry **equal** marks.
 - (3) Be precise in your answer.

1 Answer any **four** of the following : **4×4=16**

- (a) What is the contribution of Robert Koch to microbiology?
- (b) Classify viruses giving examples.
- (c) Draw a neat labelled diagram of a typical bacterial cell.
- (d) Write about the life-cycle of virus.
- (e) List eight diseases, caused by bacteria along with the causative organism.

2 Answer any **four** of the following : **4×4=16**

- (a) What are the nutritional requirements of viruses?
- (b) Write about acid fast staining.
- (c) Write about total count of Bacteria.
- (d) How will you prepare and sterilize media for aerobic bacteria?

- (e) Discuss the techniques for cultivating anaerobic bacteria?

3 Answer any **two** of the following : **2×8=16**

- (a) Define sterilization. What are the different methods of sterilization ? Discuss any one method in detail.
- (b) Write about the evaluation of disinfectants.
- (c) Discuss the dynamics of disinfection.

4 Answer any **two** of the following: **2×8=16**

- (a) What factors must be taken into account while selecting an antimicrobial preservative?
- (b) Write about the media used in 'Test for Sterility' IP.
- (c) Define the terms :
 - (i) 'Sterility' and 'Disinfection'
 - (ii) Nosocomial infection
 - (iii) Spread of microbes through man.

5 Answer any **two** of the following : **2×8=16**

- (a) Write a note on 'Clean Area'.
- (b) Discuss the methods used for assay of antibiotics.
- (c) Discuss Aquatic microbiology and its significance.