

AV – 2293

First Year B. Pharm. (Annual Pattern) Examination

PHARMACEUTICAL MICROBIOLOGY

Paper – I – T – 6

(USC – 35006)

P. Pages : 2

Time : Three Hours]

[Max. Marks : 80

- Note :** (1) All questions carry equal marks.
(2) Answer any **Eight** questions.
(3) Illustrate your answer wherever necessary with the help of neat sketches.
(4) Use pen of Blue/Black ink/refill only for writing the answer book.

1. Give the classification of microbes. Add a note on viruses. 10
2. Discuss isolation and identification of bacteria. 10
3. Describe different staining techniques. 10
4. Write about modes of microbial infection and prevention of diseases. 10
5. Write notes on (Any **Two**) :—
(a) Diphtheria (b) Typhoid (c) Whooping cough 10
6. Describe different methods of sterilization. 10
7. Explain sources of contamination and methods of its prevention. 10
8. Discuss types of antigen-antibody reactions. 10

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9. Describe various bacterial and viral vaccines. 10

10. Write short notes on (Any **Two**) :—

(a) Laminar flow equipment

(b) Preservation of pharmaceutical products.

(c) AIDS 10

