

B. Pharm Third Semester
35150 : Pharmaceutical Microbiology - T-3.2

P. Pages : 1

Time : Three Hours



AU - 0665

Max. Marks : 60

- Notes :
1. All question carry equal marks.
 2. Answer **any five** question.
 3. Illustrate your answer necessary with the help of neat sketches.
 4. Use of pen Blue/Black ink/refill only for writing the answer book.

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| 1. | Explain in detail the morphology of 'bacterial cell'. | 12 |
| 2. | What is microbial spoilage? Describe sources of contamination, types and factors affecting spoilage. | 12 |
| 3. | Define 'infection'. Explain the types of infection with examples. | 12 |
| 4. | Define and classify 'immunity'. Describe cellular and humoral immunity. | 12 |
| 5. | Introduce the term 'hypersensitivity'. Write a detailed account on it. | 12 |
| 6. | Write about sterility testing of pharmaceutical products as per I.P. | 12 |
| 7. | Write short notes on any two . | 12 |
| | a) Fungi. | |
| | b) Microbial limit tests. | |
| | c) Laminar air flow equipment. | |
