

(LP 2035)

SEPTEMBER 2019

Sub. Code: 2035

B.PHARM. DEGREE EXAMINATION
PCI Regulation – SEMESTER III
SECOND YEAR
PAPER III – PHARMACEUTICAL MICROBIOLOGY

Q.P. Code: 562035

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. Explain how microscopic methods (staining techniques) help in the identification of micro-organism.
2. Explain the different factors affecting the microbial spoilage of pharmaceutical products.
3. Explain the importance of sterilization indicators used for the evaluation of the efficiency of sterilization methods.

II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)

1. Explain the classification of disinfectant.
2. Scope and application of Microbiology.
3. State the methods of preservation of microbial cultures.
4. Microbial assay of Antibiotics.
5. Explain about moist heat sterilization.
6. Write on sterility test of pharmaceutical products.
7. Define Phenol coefficient test. Explain Chick Martin's test.
8. Classify micro-organisms depending on temperature with examples.
9. Explain the principle, procedure and interpretation of Voge-Proskauer test.

III. Short answers on: Answer ALL questions. (10 x 2 = 20)

1. List the functions of bacterial capsule.
2. Mycolic acid.
3. Unique property of agar as a solidifying agent.
4. Sex pili.
5. Growth curve.
6. Add a note on distribution pattern of flagella.
7. Define sanitizers and Antiseptic.
8. Membrane filter.
9. Give two examples each of fungicidal and virucidal agents.
10. Primary cell culture.
