

B.Pharm III SEM
Subject Name: Pharmaceutical Microbiology
Time: 3h

Sub code: BP-303T
Max Marks: 75
Year: 2021-22

Section A
(Short answer type Question)

Note: Answer any five questions. Each question carries seven marks. (5x7=35)

- Q1. Write a note on Germ theory of disease.
- Q2. How can you classify bacteria on morphological basis?
- Q3. Describe the structure and function of cell wall of bacterial cell.
- Q4. Describe the isolation methods of bacterial cell culture.
- Q5. Give the principle and use of acid fast staining.
- Q6. How can you sterilized bacterial culture media by moist heat sterilization.
- Q7. Differentiate between fungi and bacteria.
- Q8. Describe the different techniques to design aseptic area.
- Q9. Describe the different source and type of microbial contamination in pharmaceutical product.
- Q10. How can you measure bacterial cell growth by viable count method?

Section B
(Long answer type question)

Note: Answer any four questions. Each question carries ten marks. (4x10=40)

- Q1. Describe the micro and macro elements necessary for bacterial growth. Also explain the bacterial growth curve.
- Q2. Discuss the factors which effect on preservative efficacy.
- Q3. How will you perform assay of antibiotics by Cup-plate method and turbidimetric method.
- Q4. Explain in detail the procedure used for cell culture.
- Q5. How can you perform sterility test for parenteral product as per I. P.
- Q6. Describe source of contamination in aseptic area and also explains the approaches to prevent such contamination.
- Q7. Describe the structure and function of bacterial cell with diagram.
- Q8. Describe the types of spoilage and factor affecting spoilage.