

**B.PHARM****(SEM VI) THEORY EXAMINATION 2018-19****PHARMACEUTICS VII (PHARMACEUTICAL AND FOOD MICROBIOLOGY)****Time: 3 Hours****Total Marks: 70****Note:** Attempt all Sections. If you require any missing data, choose suitably.**SECTION A**

- 1. Attempt all questions in brief. 7X2 = 14**
- Name of microbial strain and method used for microbial assay of oxytetracycline as per IP.
  - What is the hanging drop method?
  - Define resolution power of microscope.
  - Explain term Rideal walker test.
  - What is temperature, pressure and time required in autoclave method for sterilization
  - Define term microbial assays.
  - What is full form of HEPA And give its efficiency

**SECTION B**

- 2. Attempt any three of the following: 7 x 3 = 21**
- Write short note on Electron microscope.
  - Differentiate the terms clean area and aseptic area. Give design of clean area with suitable diagram.
  - Explain gas sterilization method as per IP and give its application.
  - Write note on probiotics in food.
  - Discuss sterility testing as per I.P. in detail.

**SECTION C**

- 3. Attempt any one part of the following: 7 x 1 = 7**
- Give classification, mechanism of action and use of disinfectants.
  - Enlist the various methods of sterilization as per I.P. Give their validation process in detail.
- 4. Attempt any one part of the following: 7 x 1 = 7**
- Explain preservative efficacy test as per USP.
  - Discuss the Erythromycin microbial assay as per I.P.
- 5. Attempt any one part of the following: 7 x 1 = 7**
- Discus in brief microbial spoilage of foods.
  - Explain the Microbial flora of fresh food.
- 6. Attempt any one part of the following: 7 x 1 = 7**
- Classify various type of staining technique. Explain in details procedure of gram staining.
  - Discuss about the structure and function each part of bacterial cell component.
- 7. Attempt any one part of the following: 7 x 1 = 7**
- Write short note on microbial control in injectables pharma factory.
  - Give the composition and types of culture media