

B PHARM
(SEM-V) THEORY EXAMINATION 2018-19
PHARMACEUTICS-VII (PHARMACEUTICAL & FOOD MICROBIOLOGY)

Time: 3 Hours**Total Marks: 100****Note:** Attempt all Sections.**SECTION A**

- 1. Attempt *all* questions in brief. 2 x 10 = 20**
- a. Classify bacteria on the basis of temperature.
 - b. What are differences between optical and electron microscope (any two).
 - c. Classify clean area.
 - d. What do you mean by factory hygiene?
 - e. What are disinfectant?
 - f. Enlist the factors affecting the disinfectant action.
 - g. What are probiotics?
 - h. Define food microbiology.
 - i. Define the term microbial assay.
 - j. What is sterility testing.

SECTION B

- 2. Attempt any *three* of the following: 10 x 3 = 30**
- a. Write in detail about scope of food and pharmaceutical microbiology.
 - b. Write in detail about nosocomial infection and its control.
 - c. Write a note on cultivation and isolation of bacteria.
 - d. Describe the techniques of industrial food preservation.
 - e. Discuss microbial assay of erythromycin.

SECTION C

- 3. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) What are major differences between Gram positive and Gram negative bacteria?
 - (b) Give an illustrated account of the electron microscope.
- 4. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) Write in detail about nosocomial infection and its control.
 - (b) Describe the concept and design of clean and aseptic areas.
- 5. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) Describe validation of sterilization process by physical, chemical and biological methods.
 - (b) Describe the principle, working, application and advantages of the autoclave.
- 6. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) Discuss microbial flora of eggs, meat, fruits and vegetables.
 - (b) List several types of microbial food spoilage, & name the organisms responsible in each instance.
- 7. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) Write a note on preservative efficacy.
 - (b) Describe in detail about the test for sterility as per I.P.

BOP353 CORRECTION E 26.12.18

Kindly replace Q 4(a) as

Discuss various evaluation methods for disinfectants?