Printed Pages:01 **Sub Code: BOP 353**

Paper Id: 150518 **Roll No.** | | | | | | | | | | |

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 meanby 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 oncultivation 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.

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BOP353 CORRECTION E 26.12.18

Kindly replace Q 4(a) as

Discuss various evaluation methods for disinfectants?

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