Printed Pages: 01 **Sub Code: RPH623**

Paper Id: 150292 **Roll No.** | | | | | | | | | | |

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

a. Name of microbial strain and method used for microbial assay of oxytetracycline as per IP.
b. What is the hanging drop method?
c. Define resolution power of microscope.
d. Explain term Rideal walker test.
e. What is temperature, pressure and time required in autoclave method for sterilization
f Define term microbial assays.
g What is full form of HEPA And give its efficiency

SECTION B

2. Attempt any *three* of the following: 7 x 3 = 21

a) Write short note on Electron microscope.
b) Differentiate the terms clean area and aseptic area. Give design of clean area with suitable diagram.
c) Explain gas sterilization method as per IP and give its application.
d) Write note on probiotics in food.
e) Discuss sterility testing as per I.P. in detail.

SECTION C

3. Attempt any *one* part of the following: 7 x 1 = 7

(a) Give classification, mechanism of action and use of disinfectants.
(b) 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

(a) Explain preservative efficacy test as per USP.
(b) Discuss the Erythromycin microbial assay as per I.P.

5. Attempt any *one* part of the following: 7 x 1 = 7

(a) Discus in brief microbial spoilage of foods.
(b) Explain the Microbial flora of fresh food.

6. Attempt any *one* part of the following: 7 x 1 = 7

(a) Classify various type of staining technique. Explain in details procedure of gram staining.
(b) Discuss about the structure and function each part of bacterial cell component.

7. Attempt any *one* part of the following: 7 x 1 = 7

(a) Write short note on microbial control in injectables pharma factory.
(b) Give the composition and types of culture media

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