Printed Pages: 01 **Sub Code: BP303T**

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B PHARM
(SEM III) THEORY EXAMINATION 2018-19
PHARMACEUTICAL MICROBIOLOGY

Time: 3 Hours ***Total Marks: 75***

Note: Attempt all Sections.

SECTION A

1. Attempt *all* questions in brief. **10 x 2 = 20**

a. Differentiate between Prokaryotes and Eukaryotes in two main aspects.

b. What is contribution of Alexander Flemming in Microbiology?

c. How will you define Pasteurization?

d. What do you understand by aseptic and clean area?

e. Draw a neat labeled diagram of a bacterial cell.

f. What is the difference between Yeast and Mould?

g. Enlist the vegetative modes of reproduction in Fungi.

h. Define Sterilization.

i. What do you understand by IMViC?

j. Enlist different types of phenol Coefficient tests.

SECTION B

2. Attempt any *two* parts of the following: **2 x 10 = 20**

a. Enumerate the parameters required for designing of Aseptic area.

b. Describe the method for microbial standardization of Vitamin B_{12} or streptomycin.

c. Discuss various types of animal cell cultures and write the procedure for isolation of cells for *in-vitro* culture.

SECTION C

3. Attempt any *five* parts of the following: **7 x 5 = 35**

a. Describe various factors affecting bacterial growth.

b. Explain the reproductive cycles of Virus.

c. Differentiate between dry and moist heat sterilization.

d. Write principle, procedure and applications of Ziehl-Neelson staining.

e. What are the various air flow patterns in laminar flow equipments?

f. Write principle, applications, advantages and disadvantages of Phase contrast microscopy.

g. Elaborate various factors affecting microbial spoilage.