Printed Pages: 01 **Sub Code: BOP244**

Paper Id: 150209 **Roll No.** | | | | | | | | | | |

B. PHARM.
(SEM-IV) THEORY EXAMINATION 2018-19
PHARMACEUTICAL ANALYSIS-II

Time: 3 Hours ***Total Marks: 100***

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

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

a. Enlist the name of stationary phase used in thin layer chromatography.
b. Enlist the gases used in GC.
c. Define the term normal phase and reversed phase chromatography.
d. What do you understand by the term "Cold Antigen?"
e. What do you understand by Rx value?
f. Write the applications of autoradiography.
g. Write the Nernst equation.
h. Write the Van Deemter equation for Column chromatography.
i. Name the methods of preparing TLC plates
j. Arrange the solvents from high polarity to low polarity: Carbon tetra chloride, chloroform, methanol, n-butanol, acetic acid.

SECTION B

2. Attempt any *three* of the following: 10 x 3 = 30

a. Write a note on Flash Chromatography.
b. Explain the details about Electrode potential and standard electrode potential.
c. Write a note on HPTLC. Define the term R_f value.
d. Write a note on GLC.
e. Write a note on Paper Chromatography.

SECTION C

3. Attempt any *one* part of the following: 10 x 1 = 10

(a) Write a detailed note on TLC.
(b) Write the details of all five principles involved in chromatography with suitable examples.

4. Attempt any *one* part of the following: 10 x 1 = 10

(a) Give the method of preparation and standardization of 0.1N perchloric acid
(b) Write a note on Effect of pH on complexation and Metal ion indicators.

5. Attempt any *one* part of the following: 10 x 1 = 10

(a) Write a detailed note on Polarography.
(b) Enlist types of solvents and drugs analyzed by non-aqueous titrations

6. Attempt any *one* part of the following: 10 x 1 = 10

(a) Write a detailed note on Instrumentation of High Performance Liquid Chromatography.
(b) Write a detailed note on ELISA.

7. Attempt any *one* part of the following: 10 x 1 = 10

(a) Write a note on Kjeldahl method of nitrogen estimation.
(b) Write a note on Karl Fischer titration