Printed Pages: 01 **Sub Code: RPH410**

Paper Id: 150287 **Roll No.** | | | | | | | | | | |

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

Time: 3 Hours ***Total Marks: 70***

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

SECTION A

1. **Attempt all the questions in brief:** **2x7=14**
   - **a.** Write the name of various indicators used in complexometric titration**.**
   - **b.** Writ**e** down the importance of salt bridge.
   - **c.** Write the normal phase and reverse phase chromatography.
   - **d.** Write down the name of visualizing agents use in TLC.
   - **e.** Define dry and wet packaging in column chromatography.
   - **f.** Define indicator electrode with example.
   - **g.** Write down the application of Karl – Fischer titration.

SECTION B

2. **Attempt any three of the following:** **7x3=21**
   a. Define complexometric titration. Write about the standardization of EDTA by titration method.
   b. Write down the principle of paper chromatography. Write ascending and descending paper chromatography.
   c. Write a note on Karl – Fischer titration.
   d. Write a note on tailing effect, edge effect and isocratic elution.
   e. Write down advantages of non-aqueous titration over aqueous titration. Discuss in brief application of non-aqueous titrations.

SECTION C

3. **Attempt any one of the following** **7x1=7**
   a. Define non aqueous titration. Write down the preparation and standardization of 0.1M Perchloric acid.
   b. Give the example of complexing agents. Explain the role of masking and demasking agents in complexometric titrations.
4. **Attempt any one of the following** **7x1=7**
   a. Write a note on conductrometcic titration.
   b. Define dielectric cell and Nernst equation.
5. **Attempt any one of the following** **7x1=7**
   a. Give a brief idea on TLC chromatography.
   b. Write the packaging method of column and pharmaceutical application of column chromatography.
6. **Attempt any one of the following** **7x1=7**
   a. Write instrumentation and application of gas chromatography.
   b. Write note on column, detector and applications of HPLC.
7. **Attempt any one of the following** **7x1=7**
   a. Write the principle and applications of Aperometric titration
   b. Write a note radio amino assay.