



HX-014-003205

Seat No. _____

**Master of Pharmacy Management (Sem. II)
(CBCS) Examination**

June / July – 2017

Pharmaceutical Analysis – II (BP203T)

Faculty Code : 014

Subject Code : 003205

Time : 3 Hours]

[Total Marks : 80

- Instructions :** (1) Answer and tie up both sections separately.
(2) Figure to the right indicates marks.
(3) Answer the three (03) questions from each section.
(4) Question one (01) and question five (05) are compulsory.
(5) Draw neat and clean diagrams as required.

SECTION – I

- 1 Answer any **seven** out of ten : 14
- (1) What is the difference between Rf & Rx Value. Enlist different factor affecting Rf value.
 - (2) Explain advantages and disadvantages of Dropping Mercury Electrode.
 - (3) Define and write basic principle of amperometric titration.
 - (4) Explain construction of calomel electrode with diagram.
 - (5) Explain different visualizing techniques in chromatography.
 - (6) Give advantages and limitation of instrumental analytical methods.
 - (7) What is the difference between normal phase and reverse phase chromatography?
 - (8) Explain different factor affecting liquid-liquid extraction.

- (9) Define any two :
- (i) Dead time
 - (ii) Diffusion current
 - (iii) Chromatogram.
- (10) Write basic components of chromatography.
- 2** Answer the following questions : **13**
- (1) What is chromatography? Enlist different ways to classify chromatography. Write detail classification according to mobile phase used in chromatography. **7**
 - (2) Enlist different types of development techniques in paper chromatography and write in detail about two dimensional development technique. **6**
- 3** Answer the following questions : **13**
- (1) Write a note on oxygen combustion flask method. **7**
 - (2) Define extraction. Write a note on liquid-liquid extraction and write different factors that affect liquid-liquid extraction. **6**
- 4** Answer the following questions : **13**
- (1) Which are the different parts of conductometer. Explain in detail about electrode and its function in conductometer. **7**
 - (2) Discuss basic principle and instrumentation of polarimeter. **6**

SECTION – II

- 5** Answer any **two** out of three questions. **14**
- (1) What is meaning of band broadening? Explain theory of band broadening. **7**
 - (2) Enlist different techniques for application of adsorbent on the plate and write in detail about any two techniques. **7**
 - (3) What is the basic principle of DSC? Write about different types of DSC instrument. **7**

- 6** Answer the following questions : **13**
- (1) Explain different visualizing techniques in chromatography. **7**
 - (2) Discuss different factors affecting column efficiency. Write in brief : monitoring of the column. **6**
- 7** Answer the following questions : **13**
- (1) Define potentiometry. Explain different types of titration in potentiometry. **7**
 - (2) Discuss instrumentation and applications of thermogravimetric analysis. **6**
- 8** Answer the following questions : **13**
- (1) What is difference between polarimetry and polarography? Write in detail about principle and instrument set up for polarography? **7**
 - (2) Write a note on amperometry or biamperometry titration. **6**
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