[Total No. of Questions - 9] [Total No. of Printed Pages - 2]
(2123)

1563

B. Pharmacy 3rd Semester Examination

Pharm. Analysis-II (O.S.)

HBP-207

Time : 3 Hours **Max. Marks : 80**

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt Five questions in all. Select one question each from Section A, B, C and D. Section E is compulsory.

SECTION - A

1. What are non-aqueous titrations? How can we use them in analysis of drugs? Give suitable examples. **(16)**

2. (a) Briefly discuss complexometric titrations.

   (b) Explain metal ion indicators. **(16)**

SECTION - B

3. Write notes on following:

   (a) Diazotization titrations.

   (b) Oxygen Flask Combustion. **(16)**

4. Write basic principle, instrumentation and applications of Gasometry. **(16)**

SECTION - C

5. Describe basic technique and apparatus used in column chromatography. **(16)**

6. Write notes on following:

   (a) Distribution Law.

   (b) Successive extraction of drugs from excipients. **(6+10=16)**

SECTION - D

7. (a) Explain theory of polarographic titrations.

   (b) Explain theory of conductometric titrations. **(16)**

8. Explain theory, instrumentation and analytical applications of potentiometry in details. **(16)**

SECTION - E
(Compulsory)

9. Attempt the following parts (any eight):

   (a) Retention volume

   (b) Half cell

   (c) Ligand

   (d) Electric cell

   (e) Electrode potential

   (f) Counter electrode

   (g) Indicator electrode

   (h) Specific resistance

   (i) Nerst equation

   (j) Ohm's law. **(8×2=16)**