



(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 150410

Roll No.

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B. Pharm.

(SEM. IV) THEORY EXAMINATION, 2014-15
PHARMACEUTICAL ANALYSIS-II

Time : 3 Hours]

[Total Marks : 80

Note : Attempt **all** questions. **All** questions carry equal marks.

1 Attempt any two parts of the following : (8×2=16)

- (a) Explain titration of mixture by using the technique of selectivity, masking and demasking.
- (b) Explain the various indicators used in complexometric titration along with theory of action of metal ion indicators.
- (c) Define the following terms:
 - (i) Differentiating effect
 - (ii) Leveling effect
 - (iii) Amphiprotic Solvent
 - (iv) Protogenic Solvent

2 Attempt any two parts of the following : (8×2=16)

- (a) Explain the theory of Radio-assay.

- (b) Explain theory of determination of Nitrogen content in organic compound.
- (c) Explain Karl-Fischer method of moisture determination.
- 3 Attempt any two parts of the following : (8×2=16)**
- (a) Explain applications of Potentiometry.
- (b) Explain the basis of conductometric titration along with the apparatus.
- (c) Explain construction and working of glass electrode.
- 4 Attempt any two parts of the following : (8×2=16)**
- (a) Give the principle, classification and applications of paper chromatography.
- (b) Packing and clurging of column in column chromatography and its pharmaceutical applications.
- (c) Write a exhaustive note on thin layer chromatography.
- 5 Attempt any two parts of the following : (8×2=16)**
- (a) Explain the working of HPLC instrument with schematic diagram.
- (b) Explain the various detectors used in Gas liquid chromatography.
- (c) Define the following terms:
(i) Isocratic elution (ii) Gradient elution (iii) Fractional elution (iv) Eluent
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