



Printed Pages : 2

PH – 485

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

PAPER ID : 5066

Roll No.

B. PHARM.

(SEM. VIII) EXAMINATION, 2006-07

PHARMACEUTICAL ANALYSIS - III

Time : 3 Hours]

[Total Marks : 80

Note : Answer all the questions. All questions carry equal marks.

1 Attempt any **four** parts of the following : **4×4=16**

- (a) Compare Nephelometry with turbidometry.
- (b) Narrate the limitations of uv spectrophotometry and how are these overcome?
- (c) Write a note on source and detector's in UV spectrophotometer.
- (d) What is a monochromator? Comment on its applicability.
- (e) Write short note on colorimeter.

2 Answer any **four** parts of the following : **4×4**

- (a) Discuss the theory of fluorimetric analyses.
- (b) Comment on the relation between fluorescence and molecular structure.
- (c) Using IR how can you differentiate between :
 - (i) alcohol and phenol
 - (ii) ether and anhydride.

- (d) How does optical parts differ in an UV and IR spectrophotometry.
- (e) Write a note on quantitation of samples by IR spectrophotometry

3 Write notes on :

- (i) Molecular ion peak
- (ii) M+1 and M+2 peak
- (iii) Meta stable ion.

4 Answer any **four** questions : **4×4**

- (a) What is chemical shift and its importance?
- (b) Explain with a line diagram the different parts of a NMR spectrometer.
- (c) Discuss the spectral pattern of ethanol and chloromethane.
- (d) What is coupling constant?
- (e) What are the different internal standards used in NMR spectroscopy.

5 Answer any **two** questions : **8+8**

- (a) Write a note on detector in atomic emission spectrometer.
- (b) Discuss various applications of Atomic Absorption spectroscopy.
- (c) How can sodium or potassium be estimated using a flame photometer.