

Subject Code :PAQA31B/[R13]

M. Pharm I Semester Regular/ Supplementary Examinations, April, 2015
CHROMATOGRAPHIC AND OTHER SPECIAL TECHNIQUES
(PA&QA)

Time: 3 Hours

Max Marks: 60

Answer any FIVE questions
All questions carry EQUAL marks

1. Explain in detail about column chromatography.
2. Explain advantages and limitations of TLC over Paper chromatography and add a note on applications of TLC.
3. Give a detailed account on detectors used in gas chromatography with neat labeled diagrams.
4. Write a short note on
 - a) Thermo gravimetric analysis (TGA)
 - b) Differential thermal analysis (DTA).
5. Enumerate the principle construction, working, advantages and limitations of different pumps used in HPLC.
6. Discuss about GCMS in detail and add a note on recent applications.
7. Briefly discuss about the following
 - a) Super critical fluids and modifiers used in SFC.
 - b) Advantages and applications of SFC over HPLC.
8. Discuss about the following
 - a) Gel Electrophoresis
 - b) RIA.
