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M.Pharmacy(Pharmaceutical Analysis) (2017 Batch) (Sem.-2)

Subject Code : MPA-201T

Paper ID : [74925]

Max. Marks : 75

1. Attempt any FIVE questions out of SIX questions.

2. Each question carries FIFTEEN marks.

- Q1 a) Define the terms Resolution, Void volume, HETP, Tailing and Capacity factor. (10)
- b) How Ultra-liquid chromatography differs from HPLC? What are its advantages over HPLC? (5)
- Q2 What is the principle of gas chromatography? Explain the construction, working, applications and limitations of various detectors used in it. (15)
- Q3 a) How the working principle of chromatography differs from that of electrophoresis? (4)
- b) Discuss various modes of capillary electrophoresis. (6)
- c) Explain the general considerations for method development in CE. (5)
- Q4 Discuss the specific applications and limitations of hard and soft ionization techniques. Explain the working of various soft ionization techniques. (15)
- Q5 a) Define chemical shift. Enumerate various factors affecting it. Explain any two factors with examples. (10)
- b) How will you distinguish between o-dichlorobenzene and p-dichlorobenzene on the basis of their H-NMR spectra? (5)
- Q6 Write a brief note on the following :
- a) Ion trap and Orbitrap (5)
- b) Nuclear magnetic double resonance (5)
- c) Instrumentation of SCFC (5)