

Roll No.

Total No. of Pages : 01

Total No. of Questions : 06

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

ADVANCED INSTRUMENTAL ANALYSIS

Subject Code : MPA-201T

M.Code : 74925

Time : 3 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of SIX questions.
2. Each question carries FIFTEEN marks.

Q1. Write a note on :

A. Ion exchange chromatography. 5

B. HPLC in chiral analysis of pharmaceuticals. 5

C. Capillary Electrophoresis. <http://www.punjabpapers.com> 5

Q2. A. Discuss principle, instrumentation and solvent requirement in NMR. 8

B. Discuss briefly about FAB and chemical ionization mass spectrometry. 7

Q3. A. Write about general principles of affinity chromatography. Write a note on stationary and mobile phases used in affinity chromatography. 8

B. Write a note on detectors used in HPLC. 7

Q4. A. Elaborate on different mass analyzers. 8

B. Write briefly about principle of FT-NMR with reference to ^{13}C -NMR. 7

Q5. Write a note on following : <http://www.punjabpapers.com>

A. Coupling constant. 5

B. Matrix Assisted Laser Desorption (MALD) 5

C. Applications of NMR spectroscopy. 5

Q6. A. Write a note on CE-MS hyphenation. 8

B. Discuss principle and application of super critical fluid chromatography. 7

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.