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MIP 101 T
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M. PHARMACY DEGREE EXAMINATIONS, JULY - 2022
First Semester
INDUSTRIAL PHARMACY
MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES

Time : **Three Hours**

Maximum : **75 Marks**

SECTION - A

Answer any FIVE Questions.

5x5 = 25 M

1. Write a brief note on solvent effect in UV Spectroscopy.
2. Give an account on Quenchers in Spectrofluorimetry.
3. Briefly explain the factors influencing chemical shift.
4. What are metastable ions and isotopic peaks ?
5. Describe the columns used in High Performance Liquid Chromatography.
6. Define Bragg's law and outline the applications of X-ray Crystallography.
7. Write a brief note on Radioimmunity Assay.

SECTION - B

Answer any FIVE Questions.

5x10 = 50 M

8. Write a note on Instrumentation of Dispersive and Fourier - Transform IR Spectrometer.
9. Explain the principle and solvent requirement in NMR spectroscopy.
10. Give an account on different types of Ionization techniques in Mass Spectroscopy.
11. Write the principle, instrumentation and applications of Ion exchange chromatography.
12. Give a detailed account on Gel electrophoresis.
13. Write a detailed note on ELISA with special emphasis on its applications.
14. Mention the principle and applications of
 - a) Affinity chromatography.
 - b) Atomic absorption spectroscopy.

