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B.PH 705

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B. PHARMACY DEGREE EXAMINATIONS, JUNE / JULY -2022

Seventh Semester

PHARMACEUTICAL ANALYSIS - II

Time : Three Hours

Maximum : 70 Marks

SECTION - A

Answer any FOUR Questions.

4x10 = 40 M

1. a) Explain the principle and applications of UV Visible Spectrometry.
b) Discuss the factors affecting Fluorescence in Fluorimetry.
2. Give an account on Conductometry.
3. Describe the instrumentation of Gas Chromatography.
4. Explain the principle involved in HPLC and discuss the detectors used in HPLC.
5. a) Explain the principle and applications of Radio Immuno Assay.
b) Draw the block diagram of instrumentation of NMR Spectrometer and explain the detection techniques.
6. Write a note on principle and instrumentation of X-ray diffraction.

SECTION - B

Answer any TEN Questions.

10x3 = 30 M

7. Write a brief note on Radiation sources used in IR Spectroscopy.
8. Explain the principle involved in Nephelometry and Turbidimetry.
9. Give the applications of Potentiometry.
10. Briefly explain the electrodes used in amperometry.
11. Write different types of Ion exchange resins used in Ion-exchange chromatography.
12. Differentiate TLC and HPTLC. Explain advantages of HPTLC.
13. Briefly explain principle and applications of counter current distribution.

P.T.O.

14. Write different types of electrophoresis.
15. Write the applications of NMR Spectroscopy.
16. Briefly describe the principle and pharmaceutical applications of Differential Thermal Analysis.
17. Explain the principle involved in Mass Spectroscopy and add a note on any one type of Mass analyzer.
18. Briefly outline the instrumentation of Electron Spin Resonance Spectroscopy.



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IV/IV B.PHARMACY (Regular) DEGREE EXAMINATIONS, NOVEMBER-2019
7th Semester

B.PHARMACY
PHARMACEUTICAL ANALYSIS-II

Time: Three Hours

Maximum marks:70

SECTION-A

Answer any FOUR Questions

4X10=40M

1. Write the principle involved in Fluorimetry and Flame photometry with diagrams.
2. Write the theory and applications of
 - a) Polarography
 - b) Amperometry
3. Write the principle, theory and Instrumentation of GC with a neat diagram.
4. Write briefly about the principle involved in HPLC. Explain in detail about columns and detectors used in HPLC.
5. Write the Theory, Instrumentation and Applications of NMR
6. Write the instrumentation and applications involved in mass spectrometry.

SECTION-B

Answer any TEN Questions

10X3=30M

7. Define chromatography. Explain classification of chromatography.
8. Applications involved in Turbidimetry
9. Principle involved in paper chromatography.
10. Explain the principle involved in DTA.
11. Detectors of UV-visible spectrophotometer.
12. Write about chemical shift.
13. Write a note on deviations of Beer-Lambert's law.
14. Applications of potentiometry.

P.T.O

15. Write a note on counter current distribution.
16. Write briefly about Bragg's law.
17. Describe briefly the sample preparation techniques involved in IR spectroscopy.
18. Write about the detectors used in GC.



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7th Semester

B.PHARMACY

PHARMACEUTICAL ANALYSIS-II

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SECTION-A

Answer any FOUR Questions

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SECTION-B

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