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Roll No.				\perp	\perp		Total No. of Pages: 02

Total No. of Questions: 10

B.Pharmacy (Sem.-8)
PHARMACEUTICAL ANALYSIS/
PHARMACEUTICAL ANALYSIS-III

Subject Code: PHM-482 M.Code: 46241

Time: 3 Hrs. Max. Marks: 80

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any THREE questions.

SECTION-A

1. Write short notes on :

- a) Chromophore
- b) Red shift
- c) Vibration mode in IR
- d) Overtone
- e) Molar absorption
- f) Miller indices
- g) Space lattice
- h) Shielding
- Upfield shift
- Molecular ion peak
- k) Nitrogen rule
- Effect of concentration on fluorescence

1 M- 46241 (S4)-2830



- m) Specific rotation
- n) Optical electron
- n) Limitations of flame photometry

SECTION-B

- Discuss the construction and working of photomultiplier tube in UV spectroscopy.
- Discuss the sample preparation in IR spectroscopy.
- Explain theory of spin-spin coupling.
- Describe principle of polarimetry.
- Write a short note on burners used in flame photometry.

SECTION-C

- Describe the theory and instrumentation of fluorimetry.
- What are the factors affecting the chemical shift in NMR? Describe the instrumentation of NMR.
- Explain the theory of x-ray crystallography. Describe its pharmaceutical applications.
- 10. Write short notes on:
 - a) Applications of polarimetry.
 - Beer-Lambert law

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.

2 | M-46241 (S4)-2830

