

Code No: B134101

R13**SET - 1****IV B. Pharmacy I Semester Supplementary Examinations, Oct/Nov- 2019****PHARMACEUTICAL ANALYSIS-II**

Time: 3 hours

Max. Marks: 70

- Note: 1. Question paper consists of two parts (**Part-A** and **Part-B**)
2. Answering the question in **Part-A** is Compulsory
3. Answer any **THREE** Questions from **Part-B**
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PART -A

1. a) What is an auxochrome? Write its significance in UV spectroscopy. (4M)
- b) Write in brief on Electron Impact ionization method. (3M)
- c) What is the principle involved in ORD? Write its applications. (4M)
- d) With a neat diagram describe experimental set-up for TLC. (4M)
- e) Write short notes on McLafferty rearrangement. (3M)
- f) What is SDS-PAGE? Write its applications. (4M)

PART -B

2. a) With a neat sketch explain the instrumentation and applications of double beam UV spectroscopy. (10M)
- b) Write a note on derivative UV spectroscopy. (6M)
3. a) Write the principle involved in NMR spectroscopy. (6M)
- b) Write in detail on analyzers used in Mass spectrometry. (10M)
4. Write in detail on (16M)
(a) XRD (b) DSC graphs
5. a) Write in detail on stationary phases used in gel chromatography. (8M)
- b) How do you analyze a TLC plate? Write in brief on R_f value. (8M)
6. a) Write in detail on detectors used in HPLC. (8M)
- b) Write a note on mobile phases used in GC. (8M)
7. Give reasons for the following.
 - a) -COOH and -OH groups can be identified by using Mass spectrometry. (4M)
 - b) Deuterated solvents are used in preparing samples for NMR analysis. (4M)
 - c) Circular dichroism spectroscopy helps differentiate optical isomers. (4M)
 - d) TLC is better than paper chromatography for compound analysis. (4M)