Code: 15R00602 **R15**

B.Pharm III Year II Semester (R15) Regular Examinations May/June 2018

PHARMACEUTICAL ANALYSIS – II

Time: 3 hours Max. Marks: 70

PART – A

(Compulsory Question)

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1 Answer the following: (10 X 02 = 20 Marks)

(a) Define Rf value.
(b) What is HETP? Write its significance.
(c) Define fronting factor.
(d) What are the criteria to perform gas chromatographic analysis?
(e) Write the applications of DTA.
(f) Write the difference between QC and QA.
(g) What is normal phase mode in HPLC?
(h) Write the advantages of HPLC over GC.
(i) What is optical activity?
(j) Define octane rule.

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

2 Write the principle and working of ion exchange chromatography.

OR

3 What is paper chromatography? Write a note on development of paper chromatogram technique.

UNIT – II

4 Explain the working of GC with the help of a neat, labeled, schematic block diagram and describe its adsorption isotherm.

OR

5 Discuss briefly detectors and injectors used in GC.

UNIT – III

6 Write basic principle, instrumentation and applications of DSC in analysis of pharmaceuiticals.

OR

7 What is validation? Give a brief account of validation of analytical methods.

UNIT – IV

8 What is HPLC? Classify them with example. Write its applications in pharmacy.

OR

9 Discuss various parameters in chromatogram in HPLC.

UNIT – V

10 How are x-rays generated? What are the applications of x-ray diffraction? Write a note on Bragg' s law.

OR

11 What is RIA? Write its principle and types with example.

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