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B.Pharm II Year I Semester (R13) Supplementary Examinations June 2018

PHARMACEUTICAL ORGANIC CHEMISTRY - II

Time: 3 hours Max. Marks: 70

PART - A

(Compulsory Question)

- 1 Answer the following: $(10 \times 02 = 20 \text{ Marks})$
 - (a) Explain about aromaticity and basicity of pyridine, pyrazine and pyrimidine.
 - (b) What is zwitterion? Explain it.
 - (c) Define isoelectric point.
 - (d) What is epimerization?
 - (e) Explain about chirality.
 - (f) What is rancidity of oils?
 - (g) Name and write structures of any two drugs containing indole moiety.
 - (h) Define acid value.
 - (i) Write about enantiomers with suitable examples.
 - (j) Write about E & Z configuration.

PART - B

(Answer all five units, $5 \times 10 = 50 \text{ Marks}$)

UNIT – I

2 Explain about glucose ring structure.

OR

3 Write the important reactions of glucose.

UNIT - IN

4 Classify amino acids and proteins. Write about CTAA and NTAA concept and peptide synthesis.

OR

Write about the structure and chemistry of insulin, oxytocin and heparin.

(UNIT – III

Write a note on fat analysis and its significance. Write the difference between fat, oil and waxes.

OR

What is racemic mixture and write about various methods of resolution of racemic mixtures?

UNIT - IV

What are elements of symmetry and explain with suitable examples? Write a note on sequence rules.

OR

9 Write about transition metal complexes.

[UNIT – V]

Write the mechanism and applications of Beckmann rearrangement and Birch reduction.

OR

Write the mechanism and applications of Mannich reaction and Michael addition reactions.
