Code: 9R01302

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B.Pharm II Year I Semester (R09) Supplementary Examinations June 2017

PHARMACEUTICAL ORGANIC CHEMISTRY - II

Time: 3 hours Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Write the structure and chemical reactions of acridine and isoquinoline.
 - (b) Write the structure and aromaticity of pyrrole.
- 2 (a) Discuss the acidity and basicity of:
 - (i) Furan. (ii) Pyrazole. (iii) Thiophene. (iv) Pyridine.
 - (b) Discuss the structure and reactions of phenothiazine.
- 3 (a) Discuss in detail about relative configuration and absolute configuration.
 - (b) Explain E and Z configuration of alkenes with suitable examples.
- 4 Write a note on:
 - (a) Mutarotation.
 - (b) Osazone formation.
 - (c) Epimerization.
 - (d) Lobry de Bruyn Van Ekenstein reaction.
- 5 (a) Explain Zwitterionic nature and isoelectric point of amino acids.
 - (b) Explain in detail about the primary, secondary, tertiary and quaternary structure of protein.
- 6 (a) What are glycosides? Write about α , β glycosidic linkages and physiological importance of glycosides.
 - (b) Explain the principle and importance of:
 - (i) Saponification value. (ii) Acid value. (iii) Iodine value.
- 7 (a) Write the structures and uses of uric acid, caffeine, theophylline and theobromine.
 - (b) Write a note on nucleotides, nucleosides and the structure of DNA.
- 8 Write the mechanism and applications of:
 - (a) Birch reduction.
 - (b) Michael addition reaction.
 - (c) Wittig reaction.
 - (d) Curtius rearrangement.
