Code No: B2104/R10

Set No.1

II B.Pharmacy I Semester Supplementary Examinations, May 2017 ADVANCED PHARMACEUTICAL ORGANIC CHEMISTRY

Time: 3 hours Max Marks: 75

Answer any FIVE Questions All Questions carry equal marks

- 1. (a) Define the term heterocyclic compounds and discuss their nomenclature?
 - (b) Write a note on aromaticity of pyridine and furan?

[8+7]

- 2. (a) Give a brief account on chemical properties of oxazole and isoxazole?
 - (b) Explain the chemical properties of imidazole and thiazole?

[8+7]

- 3. Write a note on (a)Racemic mixture
 - (b) Optical activity
 - (c) Enantiomers
 - (d) chirality

[4+4+3+4]

- 4. Describe the following (a)Osazone formation
 - (b) Mutarotation
 - (c) Epimerization
 - (d) Glycosidic linkage

[5+3+3+4]

- 5. (a) Classify amino acids with suitable examples?
 - (b) What are essential and non-essential amino acids? Discuss role of amino acids in synthesis of proteins
 - (c) Write about essential and four non-essential amino acids with structures?.

[5+5+5]

- 6. (a)Write the structures of digitalis glycosides and explain about the mechanism of action of cardiac glycosides
 - (b) Describe the source, structure and uses of cardiac glycosides

[8+7]

- 7. (a) Write the structures & uses of uric acid, caffeine, theophylline and theobromine
 - (b) Give a brief account on structure of DNA and RNA

[8+7]

- 8. Write the detailed mechanism and applications of:
 - (a) Beckmann rearrangement
 - (b) Phillips condensation reaction
 - (c) Mannich reaction
 - (d) Michael addition reaction

[4+3+4+4]

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