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B.Pharm III Year II Semester (R09) Supplementary Examinations May/June 2018 MEDICINAL CHEMISTRY – I

Time: 3 hours Max. Marks: 70

Answer any FIVE questions All questions carry equal marks

- 1 (a) Enumerate the different approaches to the design of new drugs and discuss in detail any two approaches with examples.
 - (b) Write briefly about pro drug concept of drug design.
- 2 (a) Discuss the importance of conjugation reactions in drug metabolism giving suitable examples.
 - (b) Explain the role of cytochrome P450 monooxygenase in oxidative biotransformation.
- 3 (a) What are anti-depressants? Classify in detail and outline the synthesis, mode of action of haloperidol?
 - (b) Discuss the structure activity relationship of imipramine with its clinical significances.
- 4 (a) What are general anaesthetics? How do they differ from local anaesthetics? Outline the synthesis of halothane.
 - (b) Discuss the structure activity relation of benzoic acid derivative as local anaesthetics.
 - (c) Write a note on dissociative anaesthetics.
- 5 (a) Write a detailed note on adrenergic receptors.
 - (b) Discuss the stereochemistry of ephedrine.
 - (c) Outline the synthesis and metabolism of dopamine.
- 6 (a) Discuss the chemistry and biological activities of cholinergic agents.
 - (b) Write a note on cholinesterase inhibitors in detail & give the synthesis and uses of pyridostigmine bromide.
- 7 (a) What are beta-adrenergic blockers? Classify and discuss their structure, activity and relationship with suitable examples.
 - (b) Write the synthesis and specific uses of propranolol.
- 8 (a) What are parasympatholytic agents and classify them in detail.
 - (b) Discuss the mechanism of action and clinical significance of anticholinergics.
