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B.Pharm IV Year II Semester (R09) Supplementary Examinations July 2018 MEDICINAL CHEMISTRY – III

(For 2009 (LC), 2010, 2011, 2012 regular & 2011 (LC), 2012, 2013 lateral admitted batches only)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions All questions carry equal marks

- 1 (a) Classify antihypertensive agents. Explain the mechanism of action & SAR β Adrenergic blockers.
 - (b) Write the synthesis of enalapril.
- 2 (a) Classify antiarrhythmic agents. Write the synthesis, mechanism of action of procainamide.
 - (b) Classify diuretics. Write the SAR & synthesis of acetazolamide.
- 3 (a) How do various classes of antihyperlipidemic agents act? Write the synthetic route for clofibrate.
 - (b) Explain the classification of oral antidiabetic agents with examples.
 - (c) Write the synthesis of phenformin.
- 4 (a) Explain the terms "mild & strong analgesics". Discuss the development of analgesics based on the structure of morphine.
 - (b) Write the synthesis and uses of methadone.
- 5 (a) Classify antiviral drugs. Outline the synthesis and mechanism of action of any one drug.
 - (b) Write the synthesis of sulfamethoxazole.
 - (c) Classify antifungal agents. Explain the mechanism of action of "Azole" antifungal agents.
- 6 (a) Classify antileprotic agents. Give the synthesis, mechanism of action and uses of clofazimine.
 - (b) Write the synthesis of: (i) Ethambutol. (ii) Metronidazole.
- 7 (a) Classify antimalarial agents with structural examples of each case. Outline the synthesis and mechanism of action of any one drug.
 - (b) Classify anthelmintics and write the synthesis of albendazole.
- 8 (a) Write the classification of anticancer agents with examples. Explain in detail about alkylating agents.
 - (b) Write the synthesis of methotrexate.
 - (c) Write a note on vinca alkaloids.
