

R07

Code No: R7703

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

B. Pharmacy IV Year II Semester Examinations, April/May-2012

MEDICINAL CHEMISTRY-III

Time: 3 hours

Max. Marks: 80

Answer any five questions

All questions carry equal marks

- 1.a) Give a brief account of Cardiovascular diseases and drugs acting on Cardiovascular diseases.
b) Write the synthesis and use of anti-hypersensitive drugs Amlodipine and Losartan. [16]
- 2.a) Classify diuretics with suitable examples. Explain the synthesis and mode of action of furosemide.
b) Write the synthesis and medicinal uses of:
i) Verapamil
ii) Isosorbide dinitrate. [16]
- 3.a) Classify Sulfonamides with examples and write the synthesis of Sulphadiazine and its use.
b) Discuss the importance of non-steroidal anti-inflammatory agents. Write the structure and synthesis of oxyphenyl butazone. [16]
- 4.a) Classify anti-malarials with suitable examples. Write structure and synthesis of one compound in each class.
b) Write the synthesis and mode of action of two anti-viral drugs. [16]
- 5.a) Classify antifungal agents giving examples and outline the synthesis of any two drugs.
b) Classify anticancer drugs with suitable examples write the synthesis and mode of action of any two anticancer drugs. [16]
- 6.a) Classify anti tubercular agents with examples. Outline the synthesis and use of any two drugs.
b) Write the synthesis, mode of action and use of:
i) Mebendazole
ii) Primaquine. [16]
- 7.a) Write the structures of compounds used to treat amoebiasis and anti helminthics.
b) Write the synthesis and mode of action of
i) Chloroquine
ii) Nimesulide. [16]
- 8.a) Give an account of anti diabetic drugs with examples and write the synthesis and use of any two drugs.
b) Write the structure, synthesis and mode of action of
i) Acarbose
ii) Propylthiouracil. [16]

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