

Hemchandracharya North Gujarat University, Patan
Bachelor of Vocation
Pharmaceutical Chemistry Semester - VI
End Term Examination, May, 2017
(PC-612) (Medicinal Chemistry-III)

Time: 2 hrs

Date: 02/05/17

Maximum marks: 50

Q.1 Answer all questions. Each question carries 1 mark .

(9*1=9 Marks)

1. Draw the Structure of P-Amino Salicylic Acid.
2. How would you synthesize sulphanilamide from
(a) Acetanilide (b) Benzene (c) sulphanilic acid (d) thalazole
3. Fluconazole is _____ class Drug.
4. pyrazinamide is _____ class Drug.
(a) Anti malarial (b) Anti Mycobacterial (c) Antifungal (d) Antiviral
5. Define Antineoplastic agents
6. Amantadine is not a Anti HIV Agent.(True / False)
7. Sulphonamides SAR depends on _____ positions
(a) N₁ & N₄ (b) N₁ & N₂ (c) N₂ & N₄ (D) N₁ & N₃
8. Ampicillin is a _____ agents
(a) Sulphanilamide (b) Anti bacterial (c) Antiseptics (d) Antiviral
9. Merrifield is a _____
(a) Antibiotics (b) Resin (c) anti malarial (d) antifungal
10. Orthodox synthesis is better than combinatorial synthesis (True/False)

Q. 2 Answer any 5 questions. Each question carries 4 marks.

(5*4=20Marks)

1. Synthesis of metronidazole.
2. Short Note on combinatorial chemistry.
3. Discussed the Antiviral drugs including Anti-HIV drugs Structure activity relationship & Therapeutic Uses.
4. What is Antimalarials Drug? Synthesis of mepacrin hydrochloride
5. Define only (1) Antiseptics (2) Antitubercle agents (3) Antifungal agents
6. Synthesis of Mustine (Antineoplastic Drug)

Q.3 Answer any 3 question. Each question carries 7 marks.

(3*7=21Marks)

1. What is sulpha drug? Explained mechanisms and SAR of sulpha drug.
2. What combinatorial chemistry and drug discovery is in detailed?
3. What is Antibiotic Drug? SAR of tetracycline and penicillin.
4. Synthesis of Amantadine and methotrexate (Antineoplastic)