



**SLR-TV – 39**

Seat No.	
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**B.Pharm. (Semester – VI) (CGPA) Examination, 2018  
MEDICINAL CHEMISTRY – II**

Day and Date : Wednesday, 12-12-2018  
Time : 2.30 p.m. to 5.30 p.m.

Max. Marks : 70

1. Multiple Choice Questions : (15×1=15)

- 1) Dapsone + Rifampin + Clofazimine combination therapy is used in treating
  - A) Fungal
  - B) Cancer
  - C) Tuberculosis
  - D) AIDS
- 2) The short acting Sulphonamide is
  - A) Sulphamethizole
  - B) Sulphamethoxypyridazine
  - C) Sulphamethoxazole
  - D) Sulphalene
- 3) Identify the important enzyme in viral replication process
  - A) Hydrase
  - B) Isomerase
  - C) Reverse transcriptase
  - D) Ligase
- 4) Dacarbazine shows anti-neoplastic action by which process ?
  - A) Alkylation of DNA
  - B) Acetylating DNA
  - C) Amination of DNA
  - D) Brominating DNA
- 5) Chloroquine is synthesized from \_\_\_\_\_
  - A) m-chloroaniline
  - B) o-chloroaniline
  - C) p-chloroaniline
  - D) 2-bromoaniline
- 6) Which of the antineoplastic agent is metabolized by xanthine oxidase ?
  - A) 6-mercaptopurine
  - B) Vincristine
  - C) Chlorambucil
  - D) 6-thioguanine
- 7) Which of the drug is DHFR inhibitor ?
  - A) Chloroquine
  - B) PAS
  - C) Trimethoprim
  - D) Sulfadiazine

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- 8) Nalidixic acid inhibit \_\_\_\_\_ enzyme.  
A) Topoisomerase – IV                      B) Topoisomerase – I  
C) Ligase    D) None of above
- 9) Clotrimazole is a combination of  
A) Sulphadiazine and Trimethoprim  
B) Sulphamethoxazole and Trimethoprim  
C) Sulphamethoxazole and Sulphadia  
D) Sulphamethoxazole and Pyrimethamine
- 10) Identify folic acid antagonists agent from following  
A) Methotrexate                                  B) Busulphan  
C) Cisplatin                                        D) Taxol
- 11) \_\_\_\_\_ is used as Quinoline antibacterial agent.  
A) Sparfloxacin                                  B) Trimethoprim  
C) Nevirapine                                    D) Griseofulvin
- 12) Quinacrine is derivatives of  
A) 9-aminoacridine                              B) 4-aminoquinoline  
C) 8-aminoquinoline                            D) 6-aminoquinoline
- 13) N-1 position of Norfloxacin is occupied by which group ?  
A) Cyclopropyl                                  B) Ethyl  
C) Methyl    D) Piperazine
- 14) A potent inhibitor of thymidylate synthetase is  
A) Naftifine                                        B) 5-fluorocytosine  
C) Cyclopirax                                    D) Ketocanazole
- 15) Antifungal antibiotic is  
A) Nystatin                                        B) Nafimidine  
C) Tolnaftate                                      D) Clotrimazole
2. Answer **any five** of the following questions : **(5×5=25)**
- 1) Give complete account of DOT therapy.
  - 2) Discuss in problem faced in cancer chemotherapy.



- 3) Write a note on 4-aminoquinoline and write the synthesis of chloroquine.
  - 4) Explain MOA SAR of Ethambutal with adverse reaction.
  - 5) Write a note on azole derivatives.
  - 6) Explain SAR and MOA of ciprofloxacin as antibacterial agent.
3. Answer **any three** of the following questions : **(3×10=30)**
- 1) Outline the synthesis of Methotrxate, Acyclovir, Chloroquine.
  - 2) Define and classify antineoplastic agent with suitable eg. Explain MOA of Alkylating agent with eg.
  - 3) Classify antimalarial drugs. Explain life cycle of parasite and drug acting on the various stages.
  - 4) Classify anti-TB drug and explain MOA, SAR adverse effect and synthesis of Para amino salicylic acid.
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