

**FINAL YEAR B.PHARM. SEMESTER-VII (2011 Course) :**

**SUMMER - 2019**

**SUBJECT : MEDICINAL CHEMISTRY – III**

Day : Wednesday

Time : 02.00 PM TO 05.00 PM

Date : 24/04/2019

**S-2019-4455**

Max. Marks : 80

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**N.B.:**

- 1) **Q.No.1 and Q.No.5 are COMPULSORY.** Out of the remaining questions attempt **ANY TWO** questions from each section.
  - 2) Answers to both the sections should be written in **SEPARATE** answer books.
  - 3) Figures to the right indicate **FULL** marks.
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**SECTION – I**

- Q.1** Attempt **ANY FIVE** of the following: [10]
- a) Write down the synthesis of Dapsone.
  - b) Give any two drugs used in trypanosomiasis.
  - c) Give any two alkaloids used in the treatment of malaria.
  - d) Give the synthesis of pyrimethamine.
  - e) Give any two examples of alkylating agents used for cancer treatment.
  - f) Give examples of drugs used in the treatment of flukes.
- Q.2** Classify antineoplastic agents. Discuss the chemistry and MOA in detail of [15]  
antimetabolites.
- Q.3** What are antimalarial agents? Give chemical classification. Explain in detail [15]  
the chemistry, MOA of drugs belonging to amino quinoline class.
- Q.4** Write notes on **ANY THREE** of the following; [15]
- a) Quaternary ammonium compounds as antiseptic agents
  - b) Leishmaniasis
  - c) Antiviral agents
  - d) Antitubercular agents

**SECTION – II**

- Q.5** Attempt **ANY FIVE** of the following: [10]
- a) Give any two examples along with one structure of Quinolone antibacterial agents.
  - b) What are digestants? Give their examples.
  - c) Give examples of Aminoglycoside antibiotics.
  - d) Write down synthesis of Sulfaguanidine.
  - e) What are oxazolidinones? Give their examples.
  - f) Write down structures of 6APA and 7ACA.
- Q.6** Define term Antibiotic. Give their detail chemical classification. Explain [15]  
chemistry SAR and uses of penicillins.
- Q.7** What are sulfonamides? Give chemistry SAR, MOA and uses of N-substituted [15]  
sulfonamides.
- Q.8** Write short notes on **ANY THREE** of the following: [15]
- a) Synthetic antifungal agents
  - b) Drugs acting on GIT
  - c) Quinolone Antibacterial agents
  - d) Tetracyclins

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