

FINAL YEAR B.PHARM. SEMESTER-VII (CBCS - 2015 Course) :

WINTER - 2018

SUBJECT : MEDICINAL CHEMISTRY – III

Day : Tuesday  
Date : 13/11/2018

W-2018-4097

Time : 02.00 PM TO 05.00 PM  
Max. Marks : 60

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N.B.:

- 1) Q.No.1 and Q.No.5 are **COMPULSORY**. Out of the remaining questions attempt **ANY TWO** 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) Give structures of hydroxychloroquin and Tinidazole.
  - b) What are the causative organisms of Trypanosomiasis and leishmaniasis?
  - c) Give two examples of preservatives with their structure.
  - d) Give two examples of antiviral drugs with their structures.
  - e) Classify antimetabolites with examples.
  - f) Give examples of drugs used for the treatment of Tuberculosis.
- Q.2** Discuss the life cycle of malarial parasite. Classify antimalarial agents with examples. Discuss in detail antifolate class of antimalarials. [10]
- Q.3** What are antineoplastic agents? Give classification and explain in detail alkylating agents as antineoplastic drugs. [10]
- Q.4** Write notes on **ANY TWO** of the following: [10]
- a) Antiviral agents
  - b) Phenols as antiseptics
  - c) Drugs used for roundworm and tapeworm infections

SECTION – II

- Q.5** Attempt **ANY FIVE** of the following: [10]
- a) Write down synthesis of sulfadiazine.
  - b) Give any one example along with structure of Quinolones.
  - c) Define term Antibiotic.
  - d) Write down synthesis of Ciprofloxacin.
  - e) What is 7ACA?
  - f) Write down structure and give uses of Griseofulvin.
- Q.6** Explain in brief, chemistry, SAR, uses any one synthesis of N – 1 Substituted Sulfonamides. [10]
- Q.7** Give chemical classification of Antibiotics. Explain in detail stability and mechanism of action of Penicillins. [10]
- Q.8** Write notes on **ANY TWO** of the following: [10]
- a) Polyene antifungal agents
  - b) Fluoroquinolones
  - c) Macrolide antibiotic

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