

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

SUMMER - 2018

SUBJECT: MEDICINAL CHEMISTRY- III

Day: **Saturday**

Date: **21/04/2018**

S-2018-3976

Time: **02.00 PM TO 05.00 PM**

Max Marks: **80**

N.B:

- 1) **Q.No 1 and Q.No. 5 are COMPULSORY.** Out of the remaining solve Any **TWO** questions from each section.
- 2) Both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the **RIGHT** indicate full marks.

SECTION-I

- Q.1** Answer Any **FIVE** of the following: (10)
- a) Give the structure and IUPAC name of Hexyl resorcinol and Nitrofurazone
 - b) Sketch out the synthesis of Metronidazole
 - c) Give examples of any two drugs used in Leishmaniasis
 - d) Sketch out the synthesis of Isoniazide
 - e) Give the structure of furazolidone, Chloroquine.
 - f) Write down the structure of any two Cinchona alkaloid.
- Q.2** What are antineoplastic agents? Give their classification. Explain in detail (15)
alkylating agents as antineoplastic drugs.
- Q.3** Why treatment to mycobacterial infection is difficult? Discuss in detail agents (15)
used in the treatment of Tuberculosis.
- Q.4** Write short notes on Any **THREE** of the following: (15)
- a) Antiamebic agents
 - b) Life cycle of malarial parasite
 - c) Interferons
 - d) Anthelmintics

SECTION-II

- Q.5** Answer Any **FIVE** of the following: (10)
- a) Give examples of sulfonamides having intermediate and short duration of action
 - b) Sketch out the synthesis of Sulfadiazine
 - c) Why natural penicillin cannot be formulated as solution
 - d) Give two examples of Flouroquinolones along with their structures
 - e) Give two examples of Cephalosporins
 - f) What is 6APA? Give structure of any drug containing 6APA structure.
- Q.6** a) What are sulfonamides? Give chemical classification with suitable examples. (15)
Write down the synthesis of any two Sulfonamides.
- Q.7** Define the term Antibiotic. Give chemical classification along with suitable examples and write in short Macrolide antibiotics.
- Q.8** Write short notes on Any **THREE** of the following: (15)
- a) Antacids
 - b) Quinolone antibacterials
 - c) Polyene antibiotics
 - d) Purgatives

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