

FINAL YEAR B.PHARM. SEMESTER-VII (CBCS - 2015 Course) :
SUMMER - 2019
SUBJECT : MEDICINAL CHEMISTRY – III

Day : Wednesday
Date : 24/04/2019

S-2019-4406

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

N.B.

- 1) **Q.No. 1 and Q. No. 5** are **COMPULSORY**. Out of remaining solve **ANY TWO** Questions from **each** section.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer book.

SECTION – I

- Q.1** Attempt **ANY FIVE** from the following : **(10)**
- a) Give any two examples of alkaloids used for the treatment of malaria.
 - b) Give the structure of hexyl resorcinol.
 - c) Sketch out the synthesis of isoniazide.
 - d) Give any two examples of Halophors with their structure.
 - e) Give any two drugs used in the treatment of Leishmaniasis.
 - f) Classify antiseptic and disinfectants.
- Q.2** a) Classify antimalarial agents. Discuss in detail the SAR of Cinchona alkaloids. **(05)**
b) Discuss SAR of phenol class of antiseptic and disinfectant. **(05)**
- Q.3** a) Discuss different agents used in tuberculosis along with their mechanism of action. **(05)**
b) Discuss natural products used as antineoplastic agents. **(05)**
- Q.4** Write short notes on **ANY TWO** of the following. **(10)**
- a) Trypanosomiasis
 - b) Alkylating agents
 - c) Anti-amebic agents

SECTION – II

- Q.5** Attempt **ANY FIVE** from the following : **(10)**
- a) Write down synthesis of sulfediazine.
 - b) Give any two examples along with one structure of penicillin's.
 - c) What are N-4 substituted sulfonamides?
 - d) Write down synthesis of Nalidixic acid.
 - e) Give any one example along with one structure of synthetic aromatic antibiotics.
 - f) Give any two examples along with one structure of synthetic antifungal agents.
- Q.6** What are B-Lactam antibiotics? Give their classification along with examples and structure. Explain in short Cephalosparins. **(10)**
- Q.7** Give chemistry, SAR, MOA and uses of N-1 substituted sulfonamides. **(10)**
- Q.8** Write short notes on **ANY TWO** of the following. **(10)**
- a) Short acting sulfonamides
 - b) Aminoglycoside antibiotics
 - c) Quinolones