

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

2018

SUBJECT : MEDICINAL CHEMISTRY – III

Day : - Tuesday

W-2018-4140

Time : 02.00 PM TO 05.00 PM

Date : 13/11/2018

Max. Marks : 80

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 acedapsone.
 - b) Give any two drugs used in Leishmaniasis.
 - c) Give any two examples of Cinchona alkaloid with their structure.
 - d) Sketch out the synthesis of Ethambutol.
 - e) Give any two examples of natural products used for the treatment of cancer.
 - f) Give examples of any two heterocyclic drugs used for the treatment of amebiasis.
- Q.2** Why treatment to mycobacterial infections difficult? Give classification of mycobacterial infections. Explain in brief INH, Ethambutol and streptomycin as anti TB agents. [15]
- Q.3** Classify antimalarial drugs. Explain in detail SAR of Cinchona alkaloids. Give synthesis of amodiaquine and chloroquine [15]
- Q.4** Write notes on **ANY THREE** of the following: [15]
- a) Antiamebic agents
 - b) Anthelmintics
 - c) Antileprotic agents
 - d) Interferon

SECTION – II

- Q.5** Attempt **ANY FIVE** of the following: [10]
- a) Write down synthesis of sulfacetamide.
 - b) Give examples along with one structure of macrolide antibiotics.
 - c) What are Antiemetics? Give their examples.
 - d) Enlist various Quinolone antibacterial agents.
 - e) Write down synthesis of trimethoprim.
 - f) Give examples along with one structure of Antifungal antibiotic.
- Q.6** Give various ways of Antibiotic classification along with examples. Give chemistry SAR and uses of Cephalosporins. [15]
- Q.7** Give chemistry SAR, MOA uses of Sulfonamides. Sketch out the synthesis of any one heterocyclic sulfonamides. [15]
- Q.8** Write short notes on **ANY THREE** of the following: [15]
- a) Oxazolidinones
 - b) Penicillins
 - c) Drugs acting on GIT
 - d) Chloramphenicol antibiotic