

Roll No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Total No. of Pages : 02

Total No. of Questions : 10

B.Pharma (2011 to 2016) (Sem.-8)
PHARMACEUTICAL CHEMISTRY – VIII
(MEDICINAL CHEMISTRY – III)
Subject Code : BPHM-805
Paper ID : [72300]

Time : 3 Hrs.

Max. Marks : 80

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A** is **COMPULSORY** consisting of **FIFTEEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **FOUR** questions carrying **TEN** marks each and students have to attempt any **THREE** questions.

SECTION-A**Q1 Answer briefly :**

- a) Write the synthesis and one use of isoniazid.
- b) What are antitumour alkaloids? Give one example.
- c) Write the advantages of triple sulfa.
- d) Give mechanism of action of a 4-aminoquinoline type antimalarial agent.
- e) What are antiprotozoal agents? Give one example.
- f) Write mode of action and uses of succinyl sulphathiazole.
- g) Write mode of action of chlorambucil.
- h) Compare medicinal uses of quinine and quinidine.
- i) Define nematocides.
- j) Give structure and IUPAC name of one antithyroid drug.

k) What are organic pharmaceutical aids? Give two examples.

l) Write mode of action of antiretroviral agents.

m) Write briefly about diagnostic agents.

n) Provide uses of diagnostic agents.

o) Give example of a glucuronic acid conjugation reaction.

SECTION-B

Q2 Write in details about naturally occurring anticancer agents.

Q3 Discuss stereochemical aspects of quinine with respect to its biological activity.

Q4 Describe SAR of 4-aminoquinolines as antimalarial agents.

Q5 Provide an account of drugs used in nematode infections.

Q6 Write a note on oral hypoglycemic agents giving their mode of action.

SECTION-C

Q7 What are the different metabolic pathways? Give in detail major events in the oxidative process of drug biotransformation.

Q8 Classify various antiamoebic drugs. Discuss the development of nitroimidazoles as antiprotozoal agents. Give the synthesis of Metronidazole.

Q9 Write an account of medicinal properties, mode of action of sulphonamides with suitable examples. Occurrence of crystaluria is the common problem with sulphonamide therapy. Suggest a method to prevent/ decrease this side effect.

Q10 Classify antineoplastics giving examples. Give mode of action of any one type of such agents. Give synthesis and uses of chlorambucil.