

Roll No. 

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

Total No. of Pages : 02

Total No. of Questions : 10

**B.Pharmacy (Sem.-8)**  
**PHARMACEUTICAL CHEMISTRY-VIII**  
**(MEDICINAL CHEMISTRY-III)**  
Subject Code : PHM-483  
Paper ID : [D1147]

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 structure and uses of chloramphenicol.
- b) What are antimetabolite anticancer agents? Give one example.
- c) What are medicinal uses of emetine hydrochloride?
- d) Give mechanism of action of 9-aminocaridines as antimalarial agent.
- e) Give structure and chemical name of an antiamebic agent.
- f) Write medicinal significance of sulphacetamide.
- g) Write mode of action of chloroquine.
- h) What are the uses of organic pharmaceutical aids?
- i) Give synthesis of an antifilarial agent.
- j) Give structure and IUPAC name of an oral hypoglycemic agent.

- k) Enlist the diseases caused by DNA viruses.
- l) Write mode of action of artemisinin as antimalarial agents.
- m) Write structure of an oral hypoglycemic agent.
- n) Compare uses of thyroid and antithyroid drugs.
- o) Give example of a drug metabolism reaction by oxidation process.

### SECTION-B

- Q2 Give structure and medicinal uses of one antiviral agent each effective against DNA and RNA viruses.
- Q3 Write synthesis and medicinal uses of Isoniazid.
- Q4 Classify various antifungal agents. Write details of polyene antifungals.
- Q5 Give examples to show hydrolytic reactions as phase 1 drug metabolism reactions.
- Q6 Write mechanism of action of alkylating agents as antineoplastic agents.

### SECTION-C

- Q7 Write the structure, IUPAC name, synthesis and medicinal uses of the following therapeutic agents.
  - Dapsone
  - Niclosamide
- Q8 What do you understand by the term “helminthiasis”? Give a detailed account of the drugs used in intestinal nematode infections along with their chemical structures and nomenclature.
- Q9 Classify sulphonamides giving examples. Write structure of one representative agent of each class. Discuss mode of action of sulphonamides.
- Q10 Write notes on the following :
  - Diagnostic agents
  - Antithyroid drugs