

**THIRD YEAR PHARM. D : SUMMER - 2018**  
**SUBJECT : MEDICINAL CHEMISTRY**

Day : **Tuesday**  
Date : **17/04/2018**

**S-2018-4036**

Time : **10.00 AM to 01.00 PM**  
Max. Marks : 70

**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.

**SECTION – I**

- Q.1** A) Answer **ANY FOUR** of the following: **[08]**
- i) Write structures of fluconazole and tolnaftate.
  - ii) Write the applications of QSAR in drug discovery.
  - iii) Classify Anti-AIDS agents.
  - iv) Write structure of mebendazole and trimethoprim.
  - v) Classify Antifungal agents.
- B) Write SAR of Sulphones. **[03]**
- Q.2** a) Explain 4-amino quinolines as antimalarial agents. **[07]**
- b) Write SAR of tetracyclines. **[05]**
- Q.3** Classify sulphonamides. Write detail note on systemic sulphonamides. **[12]**
- Q.4** Write the synthesis of **ANY THREE** of the following: **[12]**
- a) Metronidazole
  - b) Chloroquine
  - c) Isoniazid
  - d) Propranolol

**SECTION – II**

- Q.5** A) Answer **ANY FOUR** of the following: **[08]**
- i) Draw structures of any two alkylating agents.
  - ii) Draw structures of any two thiazide diuretics.
  - iii) MOA of metformin.
  - iv) Draw structures of any two iodine containing diagnostic agents.
  - v) Draw structures of any two anticoagulants.
- B) Classify antineoplastic agents with examples. **[03]**
- Q.6** a) Write a detail note on anti-hypertensive agents. **[07]**
- b) Describe anti-hyperlipidemic agents. **[05]**
- Q.7** Classify with examples and write a detail note on hypoglycemic agents. **[12]**
- Q.8** Write a note on **ANY THREE** of the following: **[12]**
- a) Sex hormones
  - b) Antianginal and vasodilators
  - c) Diagnostic agents
  - d) Antiarrhythmic agents