



**S-303002**

Seat No. \_\_\_\_\_

**M. Sc. (Sem. III) Examination**

**November / December – 2020**

**MSC1C302 : Medicinal Chemistry**

**(New Course)**

**Time : 2 Hours]**

**[Total Marks : 50**

- Instructions :** (1) Answer only **three (3)** questions.  
(2) The examination will be for **two (02)** hours.  
(3) Q. No. **9** is **compulsory** and carries **14** marks.  
(4) Answer any **two** questions from questions No. **1** to **8**. Each question carries **18** marks.

- 1 (A) Define Antibiotics. What are broad spectrum Antibiotics?  
Discuss structural variations and SAR of Tetracyclines.  
(B) Give Synthesis and uses of Ampicillin.
- 2 (A) What is meant by Non-lactum antibiotics? Give illustration of antibiotics of this class. Discuss SAR of Chloramphenicol.  
(B) Give Synthesis and uses of Cephalosporin.
- 3 (A) Define the term sedatives and hypnotics. Classify them.  
(B) Give synthesis and uses of Alprazolam and Nikethamide.
- 4 (A) What are antidepressants? Classify them.  
(B) Give synthesis and uses of Pethidine and Meclofenate Sodium.
- 5 (A) Explain Modern Chemotherapy of malaria. Give SAR of 8-amino quinolins as antimalarials.  
(B) Give synthesis and uses of Dapsone (DDS) and Pyrazinamide.
- 6 (A) Give synthesis and uses of Primaquine and Daraprim.  
(B) Give synthesis and uses of Isoniazid (INH) and Ethambutol.
- 7 Give synthesis and uses of following Drugs.
  - (i) Diltiazim
  - (ii) Glibenclamide
  - (iii) Carbutamide

8 Give synthesis and uses of following Drugs.

(i) Ethacrynic Acid

(ii) Chlorothiazide

(iii) Furosemic

9 Answer the following in brief.

(1) Define Invivo Invitro Analysis.

(2) Define Acid fast Bacilli

(3) Give name and structure of any two general anesthetics.

(4) Give name of Plasmodium parasite.

(5) Give two examples of 4-Amino quinoline.

(6) What are Neuroleptics?

(7) Who is known as the father of Chemotherapy?

(8) Give the name and structure of one anti diabetic drug.

(9) What is combination therapy.

(10) What are CNS-Stimulants and Depressants.

(11) Define Beta blockers

Give structure and uses of

(12) Novalgine

(13) Quinacrine

(14) Methyl dopa