

# C. U. SHAH UNIVERSITY

## Summer Examination-2022

Subject Name: Medicinal Chemistry-II

Subject Code: 5SC04MDC1

Branch: M.Sc. (Chemistry)

Semester: 4

Date: 02/05/2022

Time: 11:00 To 02:00

Marks: 70

### Instructions:

- (1) Use of Programmable calculator and any other electronic instrument is prohibited.
  - (2) Instructions written on main answer book are strictly to be obeyed.
  - (3) Draw neat diagrams and figures (if necessary) at right places.
  - (4) Assume suitable data if needed.
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### SECTION – I

- Q-1**                      **Attempt the Following questions**                      **(07)**
- What is the full form of SAR study.                      01
  - Draw the structure of primaquine.                      01
  - Write the structure of 6-APA.                      01
  - Write any two examples of 4-amino quinoline.                      01
  - Define the Antiarrhythmic agents.                      01
  - Is Methicillin antibacterial or antifungal agent?                      01
  - Give any two examples of first generation cephalosporins.                      01
- Q-2**                      **Attempt all questions**                      **(14)**
- Explain the life cycle of malarial parasites.                      07
  - Write the synthesis of Progabide and Zonisamide.                      07

### OR

- Q-2**                      **Attempt all questions**                      **(14)**
- Write a note on Chloroquine.                      07
  - Write a note on Ibuprofen                      07
- Q-3**                      **Attempt the following question**                      **(14)**
- Describe the drug chlormycetin.                      07
  - Classify the neuroleptic drugs with examples.                      07

### OR



<b>Q-3</b>	<b>Attempt all questions</b>	<b>(14)</b>
a.	Write the synthetic pathway of Isoniazide and Dapson.	07
b.	Write a note on Thiopental Sodium.	07

**SECTION – II**

<b>Q-4</b>	<b>Attempt the Following questions</b>	<b>(07)</b>
a.	Define the term: Anesthetics	01
b.	Carbamazepine and Lamotrigine used for which disease?	01
c.	Draw the structure of penicillin.	01
d.	What is basal anesthetics?	01
e.	Give any two examples of intravenous anesthetics.	01
f.	Define the antitubercular drug.	01
g.	Draw the structure of Sotalol.	01

<b>Q-5</b>	<b>Attempt all questions</b>	<b>(14)</b>
a.	Explain the classification of antidepressant drugs with examples.	07
b.	Write a note on Procaine hydrochloride.	07

**OR**

<b>Q-5</b>	<b>Attempt all questions</b>	<b>(14)</b>
a.	Give the synthesis methods of Diazepam and Alprazolam.	07
b.	Write the uses and any two synthesis methods of Ampicillin.	07

<b>Q-6</b>	<b>Attempt all questions</b>	<b>(14)</b>
a.	Describe the synthesis and uses of phenobarbital.	07
b.	Write a note on Aminodarone.	07

**OR**

<b>Q-6</b>	<b>Attempt all Questions</b>	
a.	Explain the SAR study of chloramphenicol.	06
b.	How to classify sedatives and hypnotics? Explain in detail.	08

