

Enrollment No: \_\_\_\_\_ Exam Seat No: \_\_\_\_\_

# C.U.SHAH UNIVERSITY

## Summer Examination-2017

Subject Name: Medicinal Chemistry-II

Subject Code: 5SC04CHC1

Branch: M.Sc.(Chemistry)

Semester: 4

Date: 12/04/2017

Time: 10.30 To 01:30

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)**
- Define antibiotics **01**
  - Draw the structure of Phenoxymethyl penicillin **01**
  - Define prodrug **01**
  - Define local and general anesthetics **02**
  - Write the synthesis of floxacillin **02**
- Q-2 Attempt all questions (14)**
- A** Discuss the sedatives and hypnotics effects **08**
- B** Write the synthesis of **06**
1. Barbitone
  2. Allobarbitol
  3. Diazepam
- OR**
- Q-2 Attempt all questions (14)**
- A** Discuss the classification of barbiturates **08**
- B** Write the synthesis of **06**
1. Aminodoren
  2. Mexiletine
  3. Enacaine
- Q-3 Attempt all questions (14)**
- A** Write the complete synthesis and SAR of penicillin **08**
- B** Discuss the classification of penicillin based on mechanism of action **06**
- OR**



<b>Q-3</b>	<b>Attempt all questions</b>	
<b>A</b>	Write the complete synthesis and SAR of Chloramphenicol	<b>08</b>
<b>B</b>	Write the uses, properties and synthesis of following drugs	<b>06</b>
	1. Phenethicillin	
	2. Dicloxacillin	

### SECTION – II

<b>Q-4</b>	<b>Attempt the Following questions</b>	<b>(07)</b>
<b>a.</b>	Define pharmacokinetics	<b>01</b>
<b>b.</b>	Write synthesis of Parabanic acid	<b>01</b>
<b>c.</b>	Write synthesis of Procainamide	<b>01</b>
<b>d.</b>	Write the full forms of INH, DDT, DDS, DDQ	<b>02</b>
<b>e.</b>	Define gram + and gram- bacteria	<b>02</b>

<b>Q-5</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	What are antidepressant drugs? Discuss the classification of antidepressant drugs	<b>06</b>
<b>B</b>	Discuss the classification of Anticonvulsant drugs	<b>04</b>
<b>C</b>	Write synthesis of Ibuprofen and Novalgin	<b>04</b>

**OR**

<b>Q-5</b>	<b>Attempt all questions</b>	
<b>A</b>	What are Neuroleptic drugs? Discuss the classification of Neuroleptic drugs	<b>06</b>
<b>B</b>	Discuss the different category of anti-tuberculosis drugs	<b>04</b>
<b>C</b>	Write synthesis of Ethionamide and Sodium valproate	<b>04</b>

<b>Q-6</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	Discuss the life cycle of malaria in human	<b>08</b>
<b>B</b>	What are antimalaria agents? Discuss the life cycle of malaria in mosquito	<b>06</b>

**OR**

<b>Q-6</b>	<b>Attempt all Questions</b>	
<b>A</b>	Discuss the classification of General and local anesthesia	<b>08</b>
<b>B</b>	Write a note on	<b>06</b>
	1. Species of malaria	
	2. Synthesis of Meflaquine	
	3. Synthesis of Chloroquine	

