

Enrollment No:- \_\_\_\_\_

Exam Seat No:- \_\_\_\_\_

# C.U.SHAH UNIVERSITY

Summer-2015

Subject Code: 5SC04CHC1

Subject Name: Medicinal Chemistry-II

Course Name: M.Sc. (Chemistry)

Date: 19/5/2015

Semester: IV

Marks: 70

Time: 10:30 TO 01:30

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**Instructions:**

- 1) Attempt all Questions in same answer book/Supplementary.
  - 2) Use of Programmable calculator & any other electronic instrument prohibited.
  - 3) Instructions written on main answer book are strictly to be obeyed.
  - 4) Draw neat diagrams & figures (if necessary) at right places.
  - 5) Assume suitable & perfect data if needed.
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**SECTION-I**

- Q-1 Do as Directed. (07)
- a) Define Antibiotics (02)
  - b) Define Gram -ve and Gram +ve bacteria (02)
  - c) Draw the structure of Allobarbitol (01)
  - d) Define Prodrug (01)
  - e) Draw the structure of barbital (01)
- Q-2 Answer the following. (14)
- a) Discuss the classification of Sedative and Hypnotics (05)
  - b) Write the synthesis of Following (05)  
1) Chloromycetin      2) Cefadroxil
  - c) Discuss the Complete SAR of Penicillin (04)

OR

- Q-2 Answer the following . (14)
- a) Discuss the classification of General and Local anaesthetics (05)
  - b) Draw the synthesis route for Penicillin V (05)
  - c) Write the synthesis of Following (04)  
1) Oxacillin      2) Floxacillin
- Q-3 Answer the following (14)
- a) Give the classification of Antibiotics and discuss the MOA of antibiotics (07)
  - b) What are antimalarial agents? Discuss their symptoms and life cycle of malaria (07)

OR

- Q-3 Answer the following (14)
- a) Write a note on (07)

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19-5

- 1) Antidepressant    2) Neuroleptics  
b) Write different types of malaria in detail and Discuss the SAR of antimalarial agents (07)

## SECTION-II

- Q-4 Do as Directed (07)  
a) Write the MOA and properties of Ethionamide (02)  
b) Write the synthesis of Isoniazide (02)  
c) Define anaesthetics (01)  
d) Define reserve drug (01)  
e) Define genitourinary track (01)
- Q-5 Answer the following (14)  
a) Gives the classification of Antimalarial agents (05)  
b) Write the synthesis and uses of following medicinal drugs (05)  
    1) Ethionamide                      2) Ethambutol  
c) Write a note on Hydration derivatives (04)

OR

- Q-5 Answer the following (14)  
a) Write a note on  $\beta$ -Lactum ring (05)  
b) Write the synthesis of following (05)  
    1) Dibucaine    2) Ibuprofen  
c) Write a note on Antiarrhythmic drugs (04)
- Q-6 Answer the following (14)  
a) Write the synthesis of Following (07)  
    1) Novalgin                                      2) Trizolam and Thiopental  
b) Write the synthesis of Following (07)  
    1) Phenyton and Procaine                      2) Pivampicillin and Ampicillin

OR

- Q-6 Answer the following (14)  
a) Write the synthesis of Following (07)  
    1) Dapsone                                      2) Vigabatrin and Valproate  
b) Write the synthesis of Following (07)  
    1) Progabide                                      2) Denzimol and Zonisamide

