

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2018

Subject Name: Medicinal Chemistry-II

Subject Code: 5SC04MDC1

Branch: M.Sc. (Chemistry)

Semester: 4

Date: 24/04/2018

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 the term Acid fast bacteria. (1)
 - Enlist the main malaria parasites name. (1)
 - Write the therapeutic uses of antidepressant agents. (1)
 - State the definitions of sedatives and hypnotics. (1)
 - Define the term antitubercular. (1)
 - Write the chemical name as well as –R part in penicillin-III. (1)
 - Write the synthesis of Nikethamide. (1)
- Q-2 Answer the following questions (14)**
- Write the name of hosts used for plasmodium species and explain the life cycle of malarial parasite with proper diagram. (7)
 - Explain classification of anti-tubercular drug and write the synthesis and uses of Ethionamide. (7)
- OR**
- Q-2 Answer the following questions (14)**
- Write the synthesis and uses of Chloroquine and Daraquine. (7)
 - Write the synthesis and uses of Isoniazide (INH) and Ethambutol. (7)
- Q-3 Answer the following questions (14)**
- Write the synthesis and uses of Novocaine and Xylocaine. (7)
 - Write a note on classification of sedative and hypnotics drugs. (7)

OR



- Q-3** **Answer the following questions**
- a. Write the synthesis and uses of Dibucaine hydrochloride and Thiopental sodium. (7)
- b. Write the synthesis and uses of Phenobarbital and Amytal. (7)

SECTION – II

- Q-4** **Attempt the Following questions** (07)
- a. Write the name of one drug for chloramphenicol and tetracycline antibiotics. (1)
- b. Write the synthesis of Lamotrigine. (2)
- c. Write the synthesis and uses of Procainamide drug. (2)
- d. Draw the structure of Diazepam. (1)
- e. Draw the structure of Fluvoxamine. (1)

- Q-5** **Answer the following questions** (14)
- a. Draw the structure of Methicillin and discuss the SAR of penicillin. (7)
- b. Write the synthesis and uses of Cloxacillin and Ampicillin. (7)

OR

- Q-5** **Answer the following questions**
- a. Write the synthesis and uses of Chloramphenicol. (7)
- b. Write the synthesis and uses of Cephalexin and Cefadroxil. (7)

- Q-6** **Answer the following questions** (14)
- a. Write the synthesis and uses of Denzimidol and Vigabatrin. (7)
- b. Write the synthesis and uses of Mefloquines and Depsone. (7)

OR

- Q-6** **Answer the following questions**
- a. Write the synthesis and uses of Satalol and Tocainide hydrochloride. (7)
- b. Write the synthesis and uses of Novalgin and Pethidine. (7)

