Enrollment No: _____ Exam Seat No:_____

C.U.SHAH UNIVERSITY

Summer Examination-2022

Subject Name : Medicinal Chemistry III - Theory

Subject Code : BP601T **Branch: B.Pharm**

Semester: 6 **Date: 02/05/2022** **Time: 02:30 To 05:30** **Marks: 75**

Instructions:

(1) Use of Programmable calculator & 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.

Q-1 **Attempt the following questions:** **(20)**

a) Explain Asexual life cycle of Malarial Parasite
b) Define by giving suitable example: Anti-protozoal agent
c) Synthesis of Isoniozid
d) Why tetracycline are prohibited in pregnancy?
e) Classify: Cephalosporins
f) Define: Pharmacophore by giving example
g) What are monobactams?
h) Define by giving example: Macrolide
i) Structure and uses of: Dapsone
j) Advantages of Solution Phase Synthesis.

Q-2 **Attempt any two of following : (2*10 Marks = 20 Marks)** **(20)**

A	Write a detail note on Tetracyclines?	**10**
B	What is malaria? Write etiology of the disease along with classification of Antimalarial drugs.	**10**
C	What do you mean by Antifungal Agents? Explain Sulfonamides and Sulfones as anti-fungal agents by giving suitable examples.	**10**

Q-3 **Attempt any seven of following : (7*5 Marks = 35 Marks)** **(35)**

A	What are Quinolones? Write down its SAR. Explain synthesis and uses of: Ciprofloxacin	**5**
B	Give explanatory note on: Folate reductase inhibitors	**5**
C	Explain concept and different parameters of Drug Design.	**5**
D	Detail note on Prodrug by giving suitable examples.	**5**
E	Elaborate: Combinatorial Chemistry	**5**
F	Structure,uses, SAR and synthesis of: Chloroquine	**5**
G	Give introductory note on Azithromycin and Erythromycin.	**5**
H	Define Antibiotic along with classification.	**5**
I	Detail note on Penicillin along with appropriate structures.	**5**