

# C.U.SHAH UNIVERSITY

## Winter Examination-2022

**Subject Name: Medicinal Chemistry III – Theory**

**Subject Code: BP601T**

**Branch: B.Pharm**

**Semester: 6**

**Date: 19/09/2022**

**Time: 11:00 To 02:00**

**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.
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<b>Q-1</b>	<b>Attempt the following questions:</b>	<b>(20)</b>
	a) Define docking	2
	b) Enumerate factors governing Drug design.	2
	c) What are macrolides?	2
	d) Give the source and structure of Tetracycline and Oxytetracycline.	2
	e) Write down the structure and uses of Norfloxacin and Ofloxacin.	2
	f) Classify Antiprotozoal agents with example.	2
	g) What are the Degradation products of Penicillin? Give structure.	2
	h) Define B- Lactamase inhibitors with example.	2
	i) Give Structure and MOA of Erythromycin.	2
	j) Classify Cephalosporins.	2

**Attempt the following questions:**

<b>Q-2</b>	<b>Attempt any two of following :</b>	<b>(20)</b>
<b>A</b>	Define and Classify Antifungals, Explain SAR of Sulfonamides and Sulfones?	<b>10</b>
<b>B</b>	Give the definition and classification of Antimalarials, explain the SAR of Quinolines.	<b>10</b>
<b>C</b>	Explain the classification, MOA and SAR of Quinolones in brief, give the synthesis of Nitrofurantoin.	<b>10</b>
<b>Q-3</b>	<b>Attempt any Seven of following :</b>	<b>(35)</b>
<b>A</b>	Describe solid and solution phase synthesis in combinatorial chemistry.	<b>5</b>
<b>B</b>	Explain the life Cycle of Malarial parasite.	<b>5</b>
<b>C</b>	Write down MOA, chemistry and uses of Aminoglycosides in brief.	<b>5</b>
<b>D</b>	Classify sulphonamides. Give MOA and SAR in brief.	<b>5</b>



<b>E</b>	Give the synthesis, MOA and uses of Ciprofloxacin.	<b>5</b>
<b>F</b>	Define and explain physicochemical parameters used in QSAR.	<b>5</b>
<b>G</b>	Give the synthesis and MOA of Chloramphenicol.	<b>5</b>
<b>H</b>	Write the synthesis and uses of Chloroquine and Dapsone	<b>5</b>
<b>I</b>	Describe application, advantages and disadvantages of Combinatorial Chemistry.	<b>5</b>

