Enrollment No:	Exam Seat No:
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C.U.SHAH UNIVERSITY

Summer Examination-2020

Subject Name: Medicinal Chemistry II - Theory

Subject Code: BP501T Branch: B.Pharm

Semester: 5 Date: 24/02/2020 Time: 10:30 To 01:30 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)	Give the structure and uses of Chlorcyclizine HCl and Triprolidine hydrochloride.	2
	b)	Define gastric proton pump inhibitors, give MOA with examples.	2
	c)	Classify Antidiabetic agents with examples.	2
	d)	Explain in short Oral contraceptives	2
	e)	Histamine receptors and their distribution.	2
	f)	Define Antithyroid drugs; give structure and uses of propylthiouracil.	2
	g)	Define Antihypertensive agents, give synthesis of Methyldopate HCl.	2
	h)	Give the structure and MOA of Methimazole.	2
	i)	What are Vasodilators, write down the synthesis of Nitroglycerin.	2
	j)	Give the structure and uses of Testosterone and Progestrones	2
Q-2		Attempt any two of following:	(20)
	\mathbf{A}	Define Diuretics, give Classification and MOA. Give synthesis and uses of	10
		Acetazolamide and Chlorthiazide.	
	В	Explain SAR of Local anesthetics, Give Classification and MOA.	10
	C	Classify Steroids; Give a brief on nomenclature and stereochemistry of steroids.	10
Q-3		Attempt any Seven of following:	(35)
	\mathbf{A}	Explain the synthesis and uses of Meclorethamine and Mercaptopurine.	5
	В	Give structure and uses of L-thyroxine, cortisone, procainamide HCl, captopril.	5 5
	\mathbf{C}	Give the synthesis and uses of Warfarin and Isosorbide dinitrite.	5
	D	Write about Insulin and its preparation in brief.	5
	${f E}$	Give the synthesis and uses of Tolbutamide and Dibucaine.	5
	F	Write down the reaction and uses for Diphenhydramine HCl and Promethazine HCl.	5
	G	Classify Diuretics; write method of preparation of Furosemide.	5
	H	Classify H1 receptor antagonist, with example in each category.(with structure)	5
	ī	Elaborate the role of ΔCE inhibitors as antihypertensive agents	5

