## BACHELOR OF PHARMACY (B. PHARM.) (CBCS-2019 COURSE) B. Pharm. Sem-V: WINTER- 2022 SUBJECT: MEDICINAL CHEMISTRY-II

Day: Tuesday

Time: 10:00 AM-01:00 PM

Date

: 31-01-2023		W-20675-2022			Max. Marks: 75			
N.B.:	1) All questions are COMPULSORY. 2) Figures to the right indicate FULL marks. 3) Answers to both the sections should be written in SEPARATE answer							book.
		SEC	CTION-I					
Q.1		Answer all the questions: $(2 \times 10 = 20)$						
	a)	Benzocaine is derivative of. i) Ether iii) Bromo group	ii) Nitr	o group er group				(02)
	b)	Find Odd one out i) Dibucaine iii) Glipizide	•	orpropami butamide	de			(02)
	c)	Find Odd one out. i) Lignocaine iii)Hexylcaine	ii) Vog iv) Cyo	glibose clomethylo	caine			(02)
	d)	Which of the following agents has aziridine moiety?  i) Dacarbazine  ii) Busulfan  iv) Thiotepa						(02)
÷	e)	H1 antihistamines are i) Inverse agonists iii) Agonist		tral antago tagonist	onists			(02)
	e)	Draw Structure, IUPAC and therapeutic uses of Captopril and Phenytoin. (0)						(02)
	f)	Draw Structure, IUPAC and Hydrochlorothiazide.	id side	effects	of	Amiloride	and	(02)
	g)	Outline Scheme of synthesis of Mercaptopurine and Chlorthiazide. (						(02)
	h)	Sketch scheme of synthesis for Pro	omethazin	e and Furd	semic	le.		(02)
	i)	Sketch scheme of synthesis for Ac	et <b>a</b> zolami	de and Wa	ırfarin			(02)
Q.2		Attempt any <b>TWO</b> of the followin	g: (2×10=	= 20)				

- Write structure and uses of any two amino alkyl ether derivatives as Anthistaminic agents.
- b) Classify diuretics with suitable examples. Discuss chemistry and structural activity relationship of Thiazides.
- What are lipid lowering agents? Classify and discuss antihyperlipidemic agents and write about mode of action, chemistry and structural activity relationship.

## SECTION-II

- Q.3 Answer any SEVEN of the following:  $(7 \times 5 = 35)$ 
  - a) Discuss the nomenclature and stereochemistry of steroids with suitable examples.
  - b) Outline the synthesis, mechanism of action and uses of testosterone.
  - c) Write in brief about drugs used in the treatment of hyperthyroidism.
  - d) Discuss about medicinal importance of corticosteroids and give the structure and uses of any two corticosteroids.
  - e) Write a note on non-steroidal estrogenic agents.
  - f) Describe Sulfonyl ureas as hypoglycemic agents. Outline synthesis of Tolbutamide.
  - g) Write SAR of local anesthetics (both ester and amide type).
  - h) Write synthesis and uses of Benzocaine and Procaine.
  - i) Write note on oral contraceptives.
  - j) Write note on drugs used in erectile dysfunction.

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