Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY B.Pharm - SEMESTER-V • EXAMINATION - WINTER -2022

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Subject Code:BP502TP Date: 23/12/2022

Subject Name: Pharmacology - II

Time: 10:30 am to 01:30 pm **Total Marks: 80**

Instructions:

- 1. Question -1 is compulsory to attempt.
- 2. Attempt any 04 questions from Question 2 to 7.
- 3. Make suitable assumptions wherever necessary.

Q.1	A	nswer the following	g questions. (1 mark eac	eh)	
I	Wl	hich is cardioselective	ve β-blocker drug?		
	a.	Atenolol	b. propranolol c. l	Betaxolol	d. carteolol
II	Lo	w concentration of r	nitrates cause dilation of	·	
	a.	Large arteries	b. Veins c. Pre	capillary sphincters	d. Arterioles
III	Th	e specific antidote fo	or Heparin is;		
	a.	Pralidoxime	b. Protamine sulfate	c. Vitamine K	d. EDTA
IV	Wl	hich of the following	g drugs provide significat	nt relaxation of smo	ooth muscles of
	bot	th venules and arteri	oles?		
	a.	Nifedipine	b. Sodium nitropruside	c. Monoxidil	d. Diazoxide
V	Bre	omocriptine is	·		
	a.	Alpha antagonist	b. D2 antagonist	c. D1 antagonist	d. D2 agonist
VI	Th	e following 5-HT re	ceptor is not a G-protein	coupled receptor:	
	a.	5-HT1	b. 5-HT2	c. 5-HT3	d. 5-HT4
VII	Wl	hich of following pro	ostaglandin analogue use	d in pulmonary hyp	pertension?
	a.	Alprostadil	b. Misoprostol	c. Epoprostenol	d. latanoprost
VIII	Wl	hich of the following	g drugs only inhibits CO2	X-2 enzyme?	
	a.	Aspirin	b. Nimesulide	c. Rofecoxib	d. Naproxen
IX	Pig	geon method is used	for the bioassay of	·	
	a.	Insulin	b. Acetylcholine	c. Digitalis	d. Oxytocin
X	Wl	hich of the following	g drugs is not used for the	e management of co	ongestive heart
	fai	lure?			
	a.	Enalapril	b. Nifedipine	c. Propranolol	d. Digoxin
XI	Th	is drug inhibits the o	ligestion of sugars in the	digestive tract.	
	a.	Metformin		b. Voglibose	
	c.	Bile acid sequester	rants	d. Orlistat	
XII	Wl	hich of the following	g are useful in the therapy	y of hypercalcemia,	, except
	a.	Calcitonin		b. Glucocorticoid	ls

		c. Vitamin D	d. Parenteral infusion of phosphate					
	XIII.	Octreotide is a long acting synthetic anal	ogue of:					
		a. Prolactin	b. Growth hormone					
		c. Somatostatin	d. Gonadotropin releasing hormone					
	XIV.	Plasma expanders are used in the following	ng conditions except:					
		a. Extensive burns	b. Multilating injuries					
		c. Congestive cardiac failure	d. Endotoxin shock					
	XV.	Which of the following drugs is a H1 rec	eptor agonist?					
		a. 4-methyl histamine	b. Impromidine					
		c. 2-Thiazolyl ethylamine	d. Chlorpheniramine					
	XVI.	The cellular mechanism action of digoxin	n is inhibition of					
		a. cAMP synthesis	b. β -Adrenergic stimulation					
		c. ATP degradation	d. Sodium pump					
Q.2	(a)	Classify antiarrhythmic drugs. Discuss the	e pharmacology of quinidine.	06				
	(b)	Discuss the mechanism and pharmacologic	cal actions of digitoxin.	05				
	(c)	Classify antihypertensive drugs. Explain r	mechanism and adverse effects of Captopril.	05				
Q.3	(a)	Classify diuretics according to potency. Discuss the mechanism and uses of furosemide.						
	(b)	Explain the electrophysiology of heart.		05				
	(c)	Write a note on plasma expanders.		05				
Q.4	(a)	Discuss the mechanism and uses of Amrinone, Spironolactone, Carbimazole.						
	(b)	Write a note on 5-HT receptors.						
	(c)	Discuss the pharmacological actions and u	uses of H1 blocker drugs.	05				
Q.5	(a)	Discuss the mechanism and uses of Desm	opressin, warfarin, Atorvastatin.	06				
	(b)	Discuss the various types of DMARDs. Explain any one in details.						
	(c)	Define bioassay. Explain various types of	it.	05				
Q. 6	(a)	Classify oral hypoglycemic agents. Explain the mechanism, uses and adverse effects of metformin.						
	(b)	Write a note on SERMs.		05				
	(c)	Write a note on oral contraceptives.		05				
Q.7	(a)	Classify NSAIDs. Discuss the complete p	harmacology of aspirin.	06				
	(b)	Enlist the various methods for bioassay of	Insulin. Explain any one in detail.	05				
	(c)	Discuss the mechanism and uses of Altepl	lase, allopurinol, nitroglycerine.	05				
