Seat No.: \_\_\_\_ Enrolment No. \_\_\_\_\_

**Subject Code: BP502TP** 

## GUJARAT TECHNOLOGICAL UNIVERSITY

**B.PHARM - SEMESTER-5 EXAMINATION - WINTER -2023** 

Date: 05/12/2023

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**Subject Name: Pharmacology II** Time:10.30 a.m. to 1.30 p.m. **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. 4. Figures to the right indicate full marks. **Q.1** Answer the following questions. (1 mark each) I. Autacoids differ from hormones in that. A. Autacoids are involved only in the causation of pathological states B. Autacoids do not have a specific cell/tissue of origin C. Autacoids generally act locally at the site of generation and release D. Both 'B' and 'C' are correct II. Bone resorption is accelerated by. A. Estrogens B. Parathormone C. Bisphosphonates D. Calcitonin Choose the action for which the dose of aspirin required is the lowest. III. B. Antipyretic A. Analgesic C. Antiinflammatory D. Antiplatelet aggregatory IV. The following is a pressor peptide that can be generated both in circulation as well as locally in certain tissues: D. Plasmin A. Bradykinin B. Angiotensin C. Kallidin V. The following 5-HT receptor is not a G protein coupled receptor. B. 5-HT<sub>2</sub> C. 5-HT<sub>3</sub> A.  $5-HT_1$ D. 5-HT<sub>4</sub> VI. Which of the following is a selective H<sub>2</sub> receptor agonist. A. 4-methyl histamine B. 2-methyl histamine C.  $\alpha$  -methyl histamine D. Imetit Metformin is preferred over phenformin because: VII. A. It is more potent B. It is less liable to cause lactic acidosis C. It does not interfere with vitamin B12 absorption D. It is not contraindicated in patients with kidney disease VIII. Furosemide acts by inhibiting the following in the renal tubular cell. A. Na<sup>+</sup>-K<sup>+</sup>-2Cl<sup>-</sup> cotransporter B. Na<sup>+</sup>-Cl<sup>-</sup> symporter C. Na<sup>+</sup>-H<sup>+</sup> antiporter D. Na<sup>+</sup> K<sup>+</sup> ATPase IX. The following factor(s) is/are required for the absorption of dietary vitamin B<sub>12</sub>. A. Gastric acid B. Gastric intrinsic factor D. Both 'A' and 'B' C. Transcobalamine X. Sulfasalazine is used in the following disease. A. Bacillary dysentery B. Ulcerative colitis C. Rheumatoid arthritis D. Both 'B' and 'C' are correct XI. Losartan is a: A. Selective AT<sub>1</sub> receptor antagonist B. Selective AT<sub>2</sub> receptor antagonist C. Non selective  $AT_1 + AT_2$  receptor antagonist D.  $AT_1$  receptor partial agonist Somatostatin inhibits the release of. XII. A. Growth hormone B. Insulin C. Thyrotropin D. All of the above

XIII.		imazole acts by inhibiting.	
		odide trapping  B. Oxidation of iodide	
3/13/	C. Proteolysis of thyroglobulin  D. Synthesis of thyroglobulin protein		
XIV.	The principal action common to all class I antiarrhythmic drugs is.		
		a <sup>+</sup> channel blockade  B. K <sup>+</sup> channel opening	1
X7X 7	C. Depression of impulse conduction  D. Prolongation of effective refractory period		
XV.	Megaloblastic anaemia occurs in.		
	A. Vitamin $B_{12}$ but not folic acid deficiency B. Folic acid but not Vitamin $B_{12}$ deficiency		
	C. Either Vitamin B <sub>12</sub> or folic acid deficiency D. Only combined Vitamin B <sub>12</sub> + folic acid deficiency		
	D. C	mry combined vitainin $\mathbf{b}_{12}$ + fonc acid deficiency	
XVI.	The most important complication of streptokinase therapy is.		
	A. H	ypotension B. Bleeding C. Fever D. Anaphylaxis	
Q.2	(a)	Classify Antihypertensive drugs. Explain the role of calcium channel blockers	6
	(b)	in the treatment of hypertension.  Write a note on H <sub>1</sub> – receptor antagonists.	5
	(c)	Explain the pharmacology of Antianginal drug nitrates.	5
Q.3	(a)	Classify Diuretics. Give Mechanism of action and adverse effect of High ceiling (Loop) diuretics .	6
	(b)	Write in detail about ACE inhibiters.	5
	(c)	Discuss Drugs used in Gout.	5
Q.4	(a)	Classify NSAIDs . Write a note on Aspirin.	6
	(b)	Discuss mechanism of action and uses of following.  1. Sulfonylureas  2. Cardiac glycosides	5
	(c)	Write a note on Haematinics.	5
Q.5	(a)	Classify Oral hypoglycaemic drugs. Give Mechanism of action and adverse effect of Biguanides.	6
	(b)	Describe the pharmacology of thyroid hormones.	5
	(c)	Explain Drug therapy of Migraine.	5
Q.6	` '	Classify uterine stimulants. Write pharmacology of Oxytocin.	6
	(b) (c)	Write a short note on oral contraceptives. Enlist various Fibrinolytics agent. Describe in brief pharmacology of Streptokinase.	5 5
Q.7	(a)	Write principle and types of Bio-assay.	6
	(b)	Enlist the various methods for bioassay of insulin. Explain any one in detail.	5
	(c)	Write a note on Class-I anti-arrhythmic drugs.	5

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