Seat No.: _____ Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM - SEMESTER– 5 EXAMINATION – WINTER -2024

Subject Code:BP502TP **Date: 21-11-2024**

Subject Name: Pharmacology II

Time:10.30 AM TO 01.30 PM **Total Marks: 80**

Instructions:

1. **Q-1 is compulsory to attempt.**
2. **Attempt any Four questions from Q-2 to Q-7**
3. **Make suitable assumptions wherever necessary.**
4. **Figures to the right indicate full marks.**

Q.1 **Answer the following questions (1 marks each)** **16**

(a) _____ is an example of topical H_1 antihistaminic used by nasal route.

(b) Active metabolite of hydroxyzine is _____

(c) Ondansetron acts by antagonizing _____ receptors

(d) Aspirin is contraindicated in children less than 12 yrs old due to increased risk of _____.

(e) Montelukast act by antagonizing _____ receptors.

(f) Methimizole causes antithyroid action by inhibiting _____.

(g) Example of long- acting insulin preparation is _____.

(h) Example of shortest acting sulfonylurea is _____.

(i) Dapagliflozin causes hypoplycaemic action by inhibition of _____.

(j) Corticosteroids are synthesized in the adrenal cortical cells from _____.

(k) Most frequent side effects of ACE inhibitors is _____.

(l) Example of short acting nitrates is _____.

(m) Example of K^+ channel opener that causes antianginal effect is _____.

(n) _____ is the prototype drug of carbonic anhydrase inhibitors class.

(o) _____ is used in the treatment of megaloblastic anaemia.

(p) _____ is drug of choice for acute iron poisoning.

Q.2	**(a)**	Write the mechanism of action, adverse effects and therapeutic uses of ACE inhibitors.	**06**
	(b)	Explain pharmacology of nitrates	**05**
	(c)	Write a note on therapeutic uses and adverse effects of H_1 antihistaminic drugs.	**05**
Q.3	**(a)**	Discuss role of aldosterone antagonists and PDE-3 inhibitors in congestive cardiac failure.	**06**
	(b)	Write a note on haematinics	**05**
	(c)	Write a note on oral contraceptives.	**05**
Q.4	**(a)**	Classify diuretics and give mechanism of action and therapeutics uses of thiazide diuretics.	**06**
	(b)	Write a short note on HMG-CoA reductase inhibitors.	**05**
	(c)	Explain bioassay of oxytocin.	**05**
Q.5	**(a)**	Explain the role of calcium channel blockers in treatment of hypertension	**06**
	(b)	Describe pharmacology of antithyroid drugs.	**05**
	(c)	Explain role of parathormone, calcitonin and vitamin D in regulation of blood calcium level.	**05**
Q. 6	**(a)**	Write a note on pharmacology, adverse effects and therapeutics uses of $5HT_3$ antagonists.	**06**
	(b)	Discuss pharmacology of antithrombotic drugs	**05**
	(c)	Write a note on sulfonylureas	**05**
Q.7	**(a)**	Discuss pharmacology of digitalis in congestive cardiac failure.	**06**
	(b)	Describe bioassay of insulin in rabbits	**05**
	(c)	Write a note on plasma volume expanders	**05**

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