

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 5 EXAMINATION – SUMMER -2023

Subject Code: BP502TP**Date: 03/07/2023****Subject Name: Pharmacology II****Time:02.30 p.m. to 5.30 p.m.****Total Marks: 80****Instructions:**

1. Question-1 is compulsory to attempt.
2. Attempt any 04 questions from Question2 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)** **16**
- I) This is _____ disease involves a long-term endocrine disorder in which the adrenal glands do not produce enough steroid hormones.
- II) Give the name of oral contraceptives.
- III) Which receptor is inhibited by Montelukast?
- IV) Which is cardioselective β -blocker drug?
a) Atenolol. b) propranolol. c) Betaxolol. d) carteolol
- V) Write any two examples of L-type calcium channels blocker.
- VI) Write any two examples of DMARDs.
- VII) Which of the following is centrally acting antihypertensive agent?
a) Saralasin. b) Captopril. c) Clonidine. d) Nebivolol.
- VIII) Which enzyme is inhibited by Acetazolamide to give its diuretic action?
- IX) Which enzyme is inhibited by Digoxin to give its cardiotoxic action?
- X) Which enzyme is inhibited by Simvastatin to give anti-hyperlipidemic action?
- XI) Write major two side effects of HMG COA reductase inhibitors.
- XII) Write any two examples of H_1 antihistamines used for motion sickness.
- XIII) Effect of minoxidil persists for more than 24 hrs due to its active metabolite _____.
- XIV) Nitrates reduce the platelet aggregation by activating _____ in the platelets and thus increasing the c-GMP.
- XV) Testosterone is secreted by _____ cells of testes.
- XVI) Non steroidal anti-inflammatory agent block the hypotensive effect of ACE inhibitors by :
a. Causing retention of salt and water
b. Blocking bradykinin mediated vasodilatation
c. Inhibiting the vasodilator effect of ACE inhibitors
d. Causing vasoconstriction
- Q.2** (a) Classify antihypertensive agent. Explain the role of ACE-inhibitor in the treatment of hypertension. **06**
- (b) Give the therapeutic uses and adverse effect of warfarin. **05**
- (c) Give the principle and applications of bioassay. **05**

Q.3	(a)	Give the mechanism of action and adverse effect of Nitrites.	06
	(b)	Give the mechanism of action and adverse effect of glucocorticoids.	05
	(c)	Explain the mechanism of action and adverse effect of sulfonylurea.	05
Q.4	(a)	Enlist various thrombolytic agents. Describe in brief the pharmacology of streptokinase.	06
	(b)	Write a short note on oral contraceptives.	05
	(c)	Give the pharmacological action of insulin.	05
Q.5	(a)	Classify 5-HT antagonist. Write use and adverse effects of ondansetron.	06
	(b)	What is congestive cardiac failure? Write MOA, pharmacological actions & adverse effect of cardiac glycosides.	05
	(c)	Explain the pathophysiological role of histamine.	05
Q. 6	(a)	Write a note on anti-rheumatoid drugs.	06
	(b)	Write a note on oral hypoglycemic drugs.	05
	(c)	Define hematinics. Write a note on oral & parenteral preparations of iron.	05
Q.7	(a)	Differentiate between fibrinolytic & anti-platelet agents with suitable example.	06
	(b)	Explain in brief: Disease Modifying Anti Rheumatic Drugs.	05
	(c)	Write a short note on thromboxanes inhibitors.	05
