

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI (NEW) EXAMINATION – SUMMER 2023****Subject Code:3163617****Date:14-07-2023****Subject Name:Medicinal Chemistry - II and Medicinal Natural Products****Time:10:30 AM TO 01:00 PM****Total Marks:70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) Define: (1) Cardiovascular drugs (2) Diuretics (3) Antineoplastic drug.	03
	(b) Write the mechanism of action of anti-cancer drugs.	04
	(c) What are cardiovascular drugs? Give structural activity relationship for thiazide diuretics.	07
Q.2	(a) Give synthesis of methyldopa.	03
	(b) Write a short note on: Osteoporosis.	04
	(c) What is hyperlipidemic drug? Explain it with its mechanism of action.	07
	OR	
	(c) Describe Parkinsonism and write the classifications of antiparkinsonism agents in details.	07
Q.3	(a) Define Anti-viral drugs, anti HIV drugs with an example.	03
	(b) What are lipoproteins? Classify it.	04
	(c) What is hypertension? Classify the antihypertensive agents.	07
	OR	
Q.3	(a) Give the scope of medicinal natural products?	03
	(b) Define CNS and classify sedative hypnotics.	04
	(c) Explain the phytochemicals obtained in plants.	07
Q.4	(a) What are general anesthetics, give the stages of general anesthesia.	03
	(b) Write a note on super critical fluid extraction and sonication method of extraction	04
	(c) Explain Renin Angiotensin System (RAS).	07
	OR	
Q.4	(a) What are Anesthetics?	03
	(b) Write a short note on: Thiazide Diuretics	04
	(c) What are alkylating anticancer agents? Give the synthesis of Busulfan or Chlorambucil.	07
Q.5	(a) Which are the factors considered during isolation of crude drug from plant?	03
	(b) What are Glycosides? What are the various tests for identification of different types of Glycosides?	04
	(c) Explain ANS in concern with sympathetic and parasympathetic effect.	07
	OR	
Q.5	(a) Write a note on cardiac glycosides.	03
	(b) Give the recent advances in phytopharmaceuticals.	04
	(c) What are adrenergic drugs and cholinergic drugs?	07
