

GUJARAT TECHNOLOGICAL UNIVERSITY
Pharm D – 3rd Year • EXAMINATION – SUMMER - 2022

Subject Code:838805**Date: 10/06/2022****Subject Name: Medicinal Chemistry****Time:10:30AM TO 01:30PM****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1	(a) What is QSAR? Explain QSAR parameters	06
	(b) Define and classify diuretics	04
	(c) Explain mechanism of action for sulphonamides with chemical structures	04
Q.2	(a) Classify Anti- AIDS agents and write in detail about protease inhibitors	06
	(b) Describe semisynthetic penicillins	04
	(c) Write synthesis of clotrimazole and isoniazide	04
Q.3	(a) Write in detail about solid phase combinatotal synthesis	06
	(b) Write down SAR of Dihydropyridines as antihypertensive agents	04
	(c) Write a brief note on macrolide antibiotics	04
Q.4	(a) Classify antihyperlipidemic agents. Write in detail about statins	06
	(b) Write down synthesis of tolbutamide and furosemide	04
	(c) Write SAR of tetracyclines in detail	04
Q.5	(a) Explain life cycle of Malarial parasite and drug acting on each stage of life cycle. Write brief note on quinolines as antimalarial agents.	06
	(b) Discuss first line antituberculer agents	04
	(c) Write a note on diagnostic Agents.	04
Q. 6	(a) Discuss nomenclature and stereochemistry of steroidal hormones	06
	(b) Write SAR of thiazide diuretics	04
	(c) Write down synthesis of atenolol and chloroquine	04
Q.7	(a) Define and classify Hypoglycemic Agents. Illustrate your answer with specific examples	06
	(b) Discuss SAR of progestins and androgens	04
	(c) Write down synthesis of amantidine and ethambutol	04
