

## GUJARAT TECHNOLOGICAL UNIVERSITY

**B.PHARM. - SEMESTER- VII • EXAMINATION – SUMMER-2016**

**Subject Code: 270003**

**Date: 07/05/2016**

**Subject Name: Pharmaceutical Chemistry – IX (Medicinal Chemistry)**

**Time: 2:30 PM to 5:30 PM**

**Total Marks: 80**

**Instructions:**

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

<b>Q.1</b>	(a) Discuss antimetabolite class of anticancer agents in detail.	<b>06</b>
	(b) Write down SAR of penicillins.	<b>05</b>
	(c) Discuss the chemistry of aminoglycoside antibiotics.	<b>05</b>
<b>Q.2</b>	(a) Write a note on oral hypoglycemic agents.	<b>06</b>
	(b) Discuss SAR of tetracyclines.	<b>05</b>
	(c) Write synthesis of chloramphenicol and ciprofloxacin.	<b>05</b>
<b>Q.3</b>	(a) Write a note on immunosuppressants.	<b>06</b>
	(b) Write synthesis of fluconazole and norfloxacin.	<b>05</b>
	(c) Discuss SAR of macrolide antibiotics.	<b>05</b>
<b>Q.4</b>	(a) Classify antifungal agents and discuss any one class in detail.	<b>06</b>
	(b) Write synthesis of ethambutol and thiotepa.	<b>05</b>
	(c) Write a note on thyroid replacement therapy.	<b>05</b>
<b>Q.5</b>	(a) Discuss various antileprotic agents.	<b>06</b>
	(b) Discuss the SAR of sulfonamides and write structures of topical sulfonamides.	<b>05</b>
	(c) Write synthesis of metformin and metronidazole.	<b>05</b>
<b>Q. 6</b>	(a) Write a note on anthelmintic agents.	<b>06</b>
	(b) Discuss SAR of quinolines as antimalarials.	<b>05</b>
	(c) Write synthesis of sulfamethoxazole and carbimazole.	<b>05</b>
<b>Q. 7</b>	(a) Classify anti-HIV agents and write a note on protease inhibitors.	<b>06</b>
	(b) Write synthesis of methotrexate and amantadine.	<b>05</b>
	(c) Discuss SAR of adrenocorticoids in detail.	<b>05</b>

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