

Subject Code: 270006

Subject Name: Pharmacology-III

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GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM - SEMESTER- 7 EXAMINATION - SUMMER -2019

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	2. M	ttempt any five questions. Take suitable assumptions wherever necessary. Egures to the right indicate full marks.	
Q.1	(a)	Define and classify chemotherapeutic agents according to mechanism of action and based on spectrum.	06
	(b)	Classify sulfonamides. Write mechanism of action, antibacterial spectrum of sulfamethoxazole.	05
	(c)	Discuss the detail pharmacology of Penicillin – G.	05
Q.2	(a)	Classify anti-viral agents. Discuss the mechanism of action and antibacterial spectrum and uses of antiretroviral agents.	06
	(b)	Explain the mechanism of action, mechanism of resistance and specific adverse effects of streptomycin.	05
	(c)	Classify antimalarial drugs and discuss mechanism of action and adverse effect of quinidine.	05
Q.3	(a)	Classify antineoplastic agents and write a note on methotrexate.	06
	(b)	Explain the detail pharmacology of isoniazid as an antitubercular drug.	05
	(c)	Classify the antifungal agents and discuss the pharmacology of fluconazole in brief.	05
Q.4	(a)	Classify oral hypoglycemic agents. Explain the mechanism of action, pharmacokinetic and adverse effect of Biguanides class of drug.	06
	(b)	Write a note on gonadotropins.	05
	(c)	Discuss the biosynthesis, storage, metabolism and regulation of thyroid hormone.	05
Q.5	(a)	Explain the mechanism of action, pharmacological actions, adverse effect and uses of glucocorticoids.	06
	(b)	Write a note on oral contraceptives.	05
	(c)	Explain oxytocic in brief.	05
Q. 6	(a)	Classify anti-asthmatics drugs. Explain mechanism of action, pharmacological action of methyl xanthines derivatives.	06
	(b)	Discuss proton pump inhibitors in brief.	05
	(c)	Explain the oral rehydration salt in detail.	05
Q.7	(a) (b)	Classify immunosuppressant drugs and explain any one drug in detail. Explain the biosynthesis and physiological actions of nitric oxide.	06 05
	(c)	Define following terminologies:	05
		i) Chemotherapeutic index. ii) Antibiotics iii) Laxativeiv) Purgative v) Bacteriostatic	
