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GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - SEMESTER-I • EXAMINATION – SUMMER-2016

Subject Code: 210003 Date: 25/5/2016

Subject Name: Pharmaceutical Chemistry - I

Time: 02:30 pm – 05:30 pm Total Marks: 80

Instructions:

1. Attempt any five questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks

Q.1	(a)	Explain the following statement (i) Alkalinity of aqueous solution of borax increase with dilution. (ii) pH of distilled water falls when allowed to stand in air	06
	(b)	 (iii) Zinc oxide is amphoteric in nature. Give the structural formula and use of the following: (i) Lunar caustic (ii) Chlorinated lime (iii) Magnesium sulphate (iv) Plan situid (v) Hadron provide. 	05
	(c)	(iv) Blue vitriol (v) Hydrogen peroxide Write short note on "Antidote"	05
Q.2	(a)	Write an informative note on pharmacopoeia and pharmacopoeial monograph	06
	(b)	Draw the diagram of Gutzeit apparatus and enumerate the principle for the limit test of arsenic	05
	(c)	Write a short note on purified water for injection	05
Q.3	(a)	Define and classify antacid. Give method of preparation, properties and use of any one aluminium containing antacids.	06
	(b) (c)	Write short note on radiopharmaceuticals. Explain its applications Write a note on dental products	05 05
Q.4	(a) (b) (c)	Define and classify topical agents. Write a brief note on zinc oxide. Write detail note on "Electrolyte replenishers" Define and explain "pH and Buffer solutions" and give its importance in pharmacy	06 05 05
Q.5	(a) (b)	Explain the various theories for acids and bases Define and explain "Antioxidants". Give preparation, properties and uses of sodium metabisulphite.	06 05
	(c)	Write short note on saline cathartics	05
Q. 6	(a)	Define "Anti microbial agents". Discuss its mechanism of action. Write brief note on Lugol's solution.	06
	(b)	Enumerate the official compounds of Iron. Give the physiological importance of iron.	05
	(c)	Write a note on respiratory stimulants.	05
Q.7	(a) (b) (c)	Define and classify gastrointestinal agents with suitable examples. Write a short note on "Limit test for Lead" Define and explain Pharmaceutical Aids. Give its importance in Pharmacy.	06 05 05
