Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM – SEMESTER – 1- EXAMINATION –WINTER - 2018

Subject Code:BP104TP Date: 09/01/2019

**Subject Name: Pharmaceutical Inorganic Chemistry** 

Time:10:30 AM TO 01:30 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) (b)	What are antimicrobial agents? Classify antimicrobial agents. Give its mechanism of action.  Discuss the various official preparations of iodine.	06 05
	(c)	What are antacids? Give ideal properties of antacids.	05
Q.2	(a) (b) (c)	Discuss the various sources of impurities found in pharmaceuticals Write limit test for arsenic.  Discuss reactions and principle involved in limit test for Iron.	06 05 05
	(a)	Classify dental products with suitable examples. Explain preparation, Properties and applications of sodium fluoride.	06
	(b) (c)	Write a brief note on Oral Rehydration Salt. What are haematinics? Write the preparation, properties and uses of ferrous sulphate.	05 05
Q.4	(a)	Explain major intra and extra cellular electrolytes. Describe electrolyte combination therapy.	06
	<b>(b)</b>	Explain buffer solutions. Give the mechanism of action of buffer.	05
	<b>(c)</b>	Enlist various acid and base theories. Explain any two.	05
(	(a)	Enlist methods for measurement of radioactivity. Give a brief account on therapeutic and diagnostic applications of inorganic radiopharmaceuticals.	06
	<b>(b)</b>	Give the name and its molecular formula of any compound used as: (i) Emetics (ii) Acidifier (iii) Desensitizing agents (iv) Astringents (v) Saline cathartics	05
	<b>(c)</b>	Write a note on cyanide poisoning and its treatment.	05
Q. 6	(a)	What are radio pharmaceuticals? Enumerate the various units of radioactivity. What precautions are to be taken in handling and storage of radioactive materials?	06
	<b>(b)</b>	Describe the physiological importance of iron. Enlist official compounds of iron.	05
	(c)	Explain the following: (i) Cathartics (ii) Expectorants	05
Q.7	(a)	Explain antidotes. Write types of antidote with examples. Give preparation, properties and uses of sodium thiosulphate.	06
	(b) (c)	Write principle and reactions involved in assay of ammonium chloride. Write a note on pharmacopoeia.	05 05

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