

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) What are antimicrobial agents? Classify antimicrobial agents. Give its mechanism of action. **06**
- (b) Discuss the various official preparations of iodine. **05**
- (c) What are antacids? Give ideal properties of antacids. **05**
- Q.2** (a) Discuss the various sources of impurities found in pharmaceuticals **06**
- (b) Write limit test for arsenic. **05**
- (c) Discuss reactions and principle involved in limit test for Iron. **05**
- Q.3** (a) Classify dental products with suitable examples. Explain preparation, Properties and applications of sodium fluoride. **06**
- (b) Write a brief note on Oral Rehydration Salt. **05**
- (c) What are haematinics? Write the preparation, properties and uses of ferrous sulphate. **05**
- Q.4** (a) Explain major intra and extra cellular electrolytes. Describe electrolyte combination therapy. **06**
- (b) Explain buffer solutions. Give the mechanism of action of buffer. **05**
- (c) Enlist various acid and base theories. Explain any two. **05**
- Q.5** (a) Enlist methods for measurement of radioactivity. Give a brief account on therapeutic and diagnostic applications of inorganic radiopharmaceuticals. **06**
- (b) Give the name and its molecular formula of any compound used as: (i) Emetics **05**  
(ii) Acidifier (iii) Desensitizing agents (iv) Astringents (v) Saline cathartics
- (c) 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) 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) Write principle and reactions involved in assay of ammonium chloride. **05**
- (c) Write a note on pharmacopoeia. **05**

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