

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Sixth Semester B.Tech Degree Regular and Supplementary Examination July 2021

Course Code: CH304**Course Name: INORGANIC CHEMICAL TECHNOLOGY**

Max. Marks: 100

Duration: 3 Hours

PART A*Answer any two full questions, each carries 15 marks.*

Marks

- 1 Explain with a neat process flow diagram for the manufacture of phosphorous and phosphoric acid by electric furnace process. Mention their applications. (15)
- 2 Explain with a neat process flow diagram the manufacture of chlorine and caustic soda by electrolytic process. Mention their applications. (15)
- 3 a) Explain with a neat process flow diagram the manufacture of Oxygen and Nitrogen by Linde-Frankl cycle. (10)
- b) Explain the manufacture of sodium chloride. (5)

PART B*Answer any two full questions, each carries 15 marks.*

- 4 Write a note on properties, classification and uses of Ceramic materials. (15)
- 5 a) With a neat flow diagram explain manufacturing of any one type of pigment. (10)
- b) Discuss the properties of refractories. (5)
- 6 a) Describe the manufacture of paint. (7)
- b) List out the properties, composition and uses any two types of glass. (8)

PART C*Answer any two full questions, each carries 20 marks.*

- 7 Explain with a neat process flow diagram the manufacture of urea. What are their properties and applications? Mention its advantages and disadvantages. (20)
- 8 a) Explain the manufacture, properties and uses of silicon carbide. (10)
- b) Write a note on graphite and their potential applications. (10)
- 9 a) Write a note on different types of cement. What are their applications? (10)
- b) Write a note on fertilizer and their constituents. (10)
