

QP CODE	2028000495
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DMI-ST. EUGENE UNIVERSITY
DEGREE EXAMINATION – JANUARY 2023

SEM: II

800CH204 CHEMISTRY II

Time: 3 Hours

Max. Marks: 100

Answer any Five questions (5 x 20 = 100 Marks)

1. a) Explain on Classification of Solids based on the nature of the arrangements of the particles (8 marks)
 - b) Elucidate on Packing in solids. (4 marks)
 - c) Briefly explain on Schottky defects. (4 Marks)
 - d) Write notes on Para magnetism in Magnetic properties. (4 marks)
2. a) Define and explain the following terms
 - i. Conductance
 - ii. Alloy
 - iii. Electrolysis (10 marks)b) State Faraday's first and second law of Electrolysis: (10 marks)
3. a) Instantaneous reaction rate. (10 marks)
 - b) Elucidate on the following
 - i. Kinetic
 - ii. Thermodynamic
 - iii. Half-life (10 marks)
4. a) Explain on Diazonium salts. (10 marks)
 - b) Elucidate on diazonium coupling reaction. (10 marks)
5. a) Draw and explain on electrolytic cell for the extraction of aluminum. (10 marks)
 - b) Describe chromatographic method with the aid of a diagram. (10 marks)
6. a) Elucidate on Electrolytic cell. (10marks)
 - b) Elucidate on Dry Cell. (10 marks)
7. a) Outline on Impurity defect with the aid of a diagram. (10 marks)
 - b) Write short notes on Crystal lattices. (6marks)
 - c) What are Amorphous solids and give two examples. (4 marks)