

B.Sc. (CBCS Pattern) Semester - VI  
**CH15 - Chemistry Paper-III : Discipline Specific Elective - Chemistry-VII**  
**(Inorganic Materials of Industrial Importance)**

P. Pages : 2

Time : Three Hours



GUG/S/23/13343

Max. Marks : 50

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1. a) Discuss: 5  
i) Superconducting oxides.  
ii) Borosilicate glass.

- b) What are Cement? Give classification of cement? 5

**OR**

- c) Explain manufacturing process of glass. 2½

- d) Explain glassy state and it's properties of silicates. 2½

- e) Explain soda lime glass. 2½

- f) Discuss carbon monoxide and carbon fibre. 2½

2. a) What are Paints? Discuss Ecofriendly Paint. 5

- b) Explain the manufacturing of ammonium phosphate fertilizers. 5

**OR**

- c) Explain in short wax polishing. 2½

- d) Discuss the type of fertilizer. 2½

- e) Give classification of surface coating. 2½

- f) How mix fertilizers are prepared? 2½

3. a) Explain the manufacture of steel. 5

- b) Explain working of solar cell and polymer cell. 5

**OR**

- c) Discuss working of Li-Battery. 2½

- d) Explain argon treatment for surface treatment. 2½

- e) Give classification of Alloy. 2½

- f) Write characteristics of battery. 2½

4. a) Give preparation and properties of Cyclonite (RDX). 5  
b) Explain general principles and properties of catalysts. 5

**OR**

- c) Discuss industrial importance of catalytic process in Ostwald process. 2½  
d) Explain Zeolites as catalysis. 2½  
e) Discuss the factor affecting on enzyme activity. 2½  
f) Write note on origin of explosive properties of organic compound. 2½
5. Solve **any ten**. 10
- i) Write ingredients of Portland cement.  
ii) Define Fullerene.  
iii) What is ceramic?  
iv) Define Emulsifying agent  
v) What is thickness.  
vi) Define bio-organic fertilizer.  
vii) Define secondary cell.  
viii) Write the name of battery component.  
ix) What is carburizing?  
x) Define enzyme catalyst with one example.  
xi) What is Leadazide?  
xii) What are rocket propellants?

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