

**CHT15 - Chemistry Paper-III : Discipline Specific Elective Chemistry VII :
Inorganic Materials of Industrial Importance**

P. Pages : 2

Time : Three Hours



GUG/W/23/13343

Max. Marks : 50

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1. a) What are Cements? Give manufacturing process of cement? 5
- b) Discuss: 5
- i) Super conducting oxides.
- ii) Borosilicates glass

OR

- c) Discuss carbon nanotubes and carbon fibre. 2.5
- d) Explain manufacturing process of glass. 2.5
- e) Explain Sodalime glass. 2.5
- f) Give classification of cement. 2.5
2. a) What are Paints? Discuss ecofriendly paints. 5
- b) Explain the manufacturing of ammonium phosphate fertilizer? 5

OR

- c) Discuss the types of fertilizer. 2.5
- d) How mix fertilizers are prepared. 2.5
- e) Explain in short Wax Polishing. 2.5
- f) Give classification of surface coating. 2.5
3. a) Explain in details the manufacturing process of steel. 5
- b) Explain in details working of polymer cell and solar cell. 5

OR

- c) What are the characteristics of battery. 2.5
- d) Discuss working of Pb acid battery. 2.5
- e) Give classification of Alloy. 2.5
- f) Discuss organ treatment for surface treatment. 2.5

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

OR

- c) Discuss the factor affecting on enzyme activity. 2.5
d) Write note on origin of explosive properties of organic compound. 2.5
e) Explain Zeolites as catalysis. 2.5
f) Discuss industrial importance of catalytic process in Ostwald process. 2.5
5. Attempt **any ten**. 1x10
=10
- i) Define Fullerenes.
ii) Write ingredients of portland cement.
iii) What is Ceramic?
iv) Define emulsifying agents.
v) Define bio-organic fertilizer
vi) What is thickness.
vii) What is carburizing.
viii) Define secondary cell.
ix) Write the name of battery component.
x) What are rocket propellants?
xi) Define enzyme catalyst with one examples.
xii) What is Leadazide?
