

B.Sc. (CBCS Pattern) Semester-V  
**USCCHT11 - Chemistry Paper-III - Industrial Chemicals and Environment**

P. Pages : 2

Time : Three Hours



**GUG/S/25/13091**

Max. Marks : 50

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1. a) What is application, manufacture, analysis and Hazards handling of Hydrochloric acid and Hydrogen Peroxide. 5

b) What are uses, storage and hazards in handling of the acetylene, CO and phosgene gas. 5

**OR**

c) What are industrial gases? 2.5

d) Write application of Bleaching powder. 2.5

e) How to handle nitric acid and Sulphuric acid in laboratory. 2.5

f) Write note storage of Chlorine and Fluorine gasses. 2.5

2. a) What are is importance of Green Chemistry and Chemical industry. 5

b) Explain preparation of ferrous and non-ferrous metals. 5

**OR**

c) Write a note on Biocatalysts? 2.5

d) Explain Biogeochemistry cycles of sulphur and nitrogen. 2.5

e) Explain ultrapure metals for semiconductor technology. 2.5

f) What are biogeochemistry cycles of Carbon. 2.5

3. a) Explain method of estimation of CO, Nox, Sox and control producer. 5

b) What is air pollution? Explain regions of atmosphere. 5

**OR**

c) What is Greenhouse effect? 2.5

d) Explain environmental effect of ozone. 2.5

e) Explain types of source of air pollutant. 2.5

f) What is the effect of air pollution on living organisms? 2.5

4. a) What is nuclear disaster and its management. 5  
b) Explain coal, petrol and natural gas. 5

OR

- c) What is Tidal and Hydel energy? 2.5  
d) Explain disposal of nuclear waste. 2.5  
e) What is nuclear fission and fusion. 2.5  
f) Write a note on solar energy. 2.5
5. Solve **only ten** questions. 1x10  
=10
- i) Global warming.  
ii) Write molecular formula of potassium permanganate.  
iii) Give application of caustic soda.  
iv) What is role of catalysis.  
v) Write application of ozone.  
vi) Write two slogan on environment.  
vii) Chlorofluorocarbon gas.  
viii) Photochemical smog.  
ix) How removal of sulphur from coal.  
x) Geothermal energy.  
xi) Hydrogen energy.  
xii) What is nuclear pollution.

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