B.Sc. (CBCS Pattern) Sem-V USCCHT11 - Chemistry Paper-III : Industrial Chemical and Environment

P. Pages : 2 Time : Three Hours			S	* 1 2 0 0	GUG/W/22/1 * Max. Mark	GUG/W/22/13091 Max. Marks : 50
	Not	e: All	questions are compulsor	y and carry eq	ual marks.	
1.	a)	Explain	Explain manufacture and hazards in handling of			5
		i) B	orax	ii)	Bleaching powder	
	b)	Discuss applications of following chemicals-				5
		i) So	odium thiosulphate	ii)	Hydrogen peroxide	
				0	R	
	c)	Give the large scale production of carbon monoxide.				
	d)	Explain the hazards in handelling of potash alum.				
	e)	Explain the method for storing of sulphur dioxide.				
	f)	Explain the analysis of Cheromealum.				
2.	a)	State importance of biocatalysis in green chemistry.				
	b)	Give the preparation of ultrapure metals for semiconductor technology.				
				0	R	
	c)	State b	iogeochemical cycle of n	itrogen.		21/2
	d)	Explain the importance of biocatalysis in chemical industry.				21/2
	e)	Give the method of preparation of metals with respect to non ferrous compoun				21/2
	f)	Discus	s the importance of Bioc	atalysis in che	mical industry.	21/2
3.	a)	What is green house effect? Explain ozone depletion by oxides of nitrogen.				
	b)	Discuss the major regions of atmosphere? Discuss chemical and photochemical reac in atmosphere.				
				0	R	
	c)	Explain effect of air pollution on living organism.				21/2
	d)	How particle size and chemical nature affect air pollution?				2 ¹ /2

e)	Explain methods of estimation of CO and NO ₂ .	21/2			
f)	Discuss control of particulates.	21/2			
a)	Explain the following	5			
	i) Solar energy ii) Hydel energy				
b)	Discuss nuclear disaster and its management.	5			
	OR				
c) Explain about disposal of nuclear waste.					
d)	Explain the geothermal energy.	21/2			
e)	Write about Tidal energy.	21/2			
f)	Differentiate between nuclear fusion and nuclear fission.	21/2			
	Answer any ten questions.	10			
	1) How neon gas is stored?				
	2) State any two applications of potash alum.				
	3) What are the hazards in handling caustic soda.				
	4) What is biocatalysis?				
	5) Define ecosystem.				
	6) Define semiconductors.				
	7) What is photochemical smog?				
	8) What are major sources of air pollution?				
	9) State any two natural gas.				
	10) What are foul smelling gases?				
	11) What is nuclear pollution?				
	12) How coal can be used as source of energy.				
	 e) f) a) b) c) d) e) f) 	 explain methods of estimation of CO and NO₂. f) Discuss control of particulates. a) Explain the following i) Solar energy ii) Hydel energy b) Discuss nuclear disaster and its management. OR explain about disposal of nuclear waste. d) Explain the geothermal energy. e) Write about Tidal energy. f) Differentiate between nuclear fusion and nuclear fission. Answer any ten questions. 1) How neon gas is stored? 2) State any two applications of potash alum. 3) What are the hazards in handling caustic soda. 4) What is biocatalysis? 5) Define ecosystem. 6) Define semiconductors. 7) What is photochemical smog? 8) What are major sources of air pollution? 9) State any two natural gas. 10) What are foul smelling gases? 11) What is nuclear pollution? 12) How coal can be used as source of energy. 			
