## M.Sc. Part-I Semester-I (CBCS Scheme) Examination ENVIRONMENTAL SCIENCE ENVIRONMENTAL CHEMISTRY

## Paper-III

Time: Three Hours] [Maxin			num Marks : 80	
		N.B.:—All questions are compulsory and carry equal marks.		
1.	(a)	Explain what is stoichiometry with suitable example.	6	
	(b)	Explain Gibb's energy with deviation.	5	
	(c)	Discuss the concept of solubility product.	5	
		OR		
	(d)	Discuss with example Acid-Base reaction.	6	
	(e)	Describe Chemical Equilibria.	5	
	(f)	Describe Chemical Potential.	5	
2.	Des	cribe the chemistry of Green House gases explaining their impacts as Global War	ming. 16	
		OR		
		cribe the Thermochemical and Photochemical reactions in the atmosphere. Discuss in Environment.	npacts 16	
3.	(g)	Classify the industrial pollutant with example.	6	
	(h)	What do you mean by Heavy Metals? Explain their properties.	5	
	(i)	Describe the chemical characteristics of asbestos.	5	
		OR		
	(j)	Explain insecticides, fungicides and herbicides with suitable example.	6	
	(k)	In what way sugar and starch industries are important pollution industries?	5	
	(1)	What type of pollutants are generated from cement industries?	5	
4.		ine error. Give detail classification of Error. Discuss methods for minimizing error able example.	s with 16	
		OR		
		plain the basic concept and definition of true result. Discuss the concept of station.	ındard 16	
5.	Dis	cuss:		
	(m)	Principle and Working of spectrophotomety.	6	
	(n)	Merits and Demerits of Flame photometry.	5	
	(o)	Principles of high performance liquid chromatography.	5	
		OR		
	(p)	Working and principles of Ion exchange chromatography.	6	
	(q)	Working and principles of high volume sampler.	5	
	(r)	Merits and demerits of colorimetry.	5	

