## M.Tech-Energy Management Systems Sem II MT-1014.2 - Elective-II : Environmental Science and Engineering

P. Pages: 1 Time: Three Hours			GUG/W/16/3958 Max. Marks : 70	
	Note	es: 1. All questions carry equal marks. 2. Answer <b>any five</b> questions. 3. Assume suitable data wherever necessary. 4. Illustrate your answers wherever necessary with the help of neat s	sketches.	
1.	a)	Define environmental degradation. How can you reduce it?	7	
	b)	Which is the main cause and effects of acid rain on the biological damage?	? 7	
2.	a)	What are the environmental issues with regard to land used by various gen	erating stations? 7	
3.	b)	What are the guidelines for site selection of coal based thermal power plan Write short notes on	ats by MOEF? 7	
		a) Clean coal technology	7	
		b) Green biogas energy	7	
4.	a)	Describe the importance of built up an Anaerobic treatment plant for the co-industrial sludge.	-generation from 7	
	b)	How can you meet with the requirements of 'Clean water act' from treatment techniques.	modern effluent 7	
5.	a)	Explain environmental Impact Assessment. How it can be carried out station?	in hydropower 7	
	b)	Explain the method of air pollution control in nuclear power plant.	7	
6.		Discuss pre combustion & post combustion technologies employed for red in coal fired thermal power plant.	lucing pollution 14	
7	a)	What are the guide lines for coal based thermal power plant to use the benewith environmental concerns.	eficiated coal 7	
	b)	Discuss the emission standards as per EPA & CPCB notifications.	7	
8.	a)	State various pollution control equipments used in power plant. Explain any	y one equipment.	
	b)	Write brief note on fly ash utilization.		

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