210	Registra	ation No : 210 210 210 210	210	210
	Total N	umber of pages : 01	B.Tech	
210	EEE,	PE 1 st Semester Back Examination 2018-2019 ENVIRONMENTAL STUDIES & HEALTH CARE ENGINEERING CH : AEIE, AERO, AUTO, BIOMED, BIOTECH, CHEM, CIVIL, CSE , EIE, ELECTRICAL, ENV, ETC, FAT, IEE, IT, MANUFAC, MANUT ECH, METTA, MINERAL ⁰ , MINING, MME, PE, PLASTIC, PT, TEXTI Time : 3 Hour MAX Marks : 100 Q.CODE : E852	ÉCH,	210
		r Question No.1 (Part-1) which is compulsory, any EIGHT from y TWO from Part-III.	n Part-II	
		The figures in the right hand margin indicate marks.		
210	210	210 210 210 210 210 PART-I	210	210
	Q1 a) b) c) d) e)	Short Answer Type Questions (Answer All-10) What are Abiotic factors and Biotic factors existing in ecosystem? What is the role of Nitrogen fixation in Nitrogen cycle? Define Gross primary production and Net primary production. Define COD and BOD. List out the secondary air pollutants.	(2 × 10)	
210	210 f) g) h) i) j)	What is wet air oxidation? ¹⁰ 210 210 What are the effects of chemical hazards on environment? What are the constituents of emission from petroleum refinery? What are the personal protective equipments for respiration system? What is heat burn?	210	210
		PART-II		
210	Q2 210 a)		(6 × 8) 210	210
	b) c) d)	environment? What are the different organic compounds present in soil? What is the function of each of these compounds?		
210	²¹⁰ e)	be 100 mg/L. What would be the 5 day BOD at 20°C? K=0.12 at 20°C What is ² the reason of naming organic matters as oxygen demanding wastes? Explain the procedures to measure it.	210	210
	f) g)	Explain the Gaussian distribution method which is used to predict concentration of pollutants in air. Discuss briefly the properties of Municipal Solid Waste.		
	h)	What do you understand by occupational safety and occupational health?		
210	i) ²¹⁰ j) k) I)	Write about hazard control measures in steel industry. Explain the fire extinguishing techniques. ²¹⁰ ²¹⁰ ²¹⁰ How does information technology affect/effect human health? What is malaria? Write its prevention.	210	210
		PART-III		
	Q3	Long Answer Type Questions (Answer any Two out of Four) Draw the tolerance curve. Discuss each segment of it.	(16)	
210	Q 4 ⁰	What is global warming? What are the environmental effect of global warming? Share your ideas to control the global warming.	²¹ (16)	210
	Q5	Define Safety Performance Index. What are the types and causes of accident?	(16)	
	Q6	Discuss the causes, prevention and control measures of hepatitis.	(16)	
210	210	210 210 210 210 210	210	210
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