	egistra	ation No: 210 210 210 210 210	210 210
То	otal Nu	Imber of Pages: 02	<u>B.TECH</u> PES1C001
		1 st Semester Regular / Back Examination 2017-1 ENVIRONMENTA STUDIES AND HEALTH CARE ICH: AEIE, AUTO, BIOMED, CHEM, CIVIL, CSE, ECE, EEE, EIE, E ETC, IEE, IT, MECH, METTA, MINERAL, MINING, MME, PT, TE Time: 3 Hours Max Marks: 100 Q.CODE: B1009 Answer Part-A which is compulsory and any four from The figures in the right hand margin indicate mark	210 210 ELECTRICAL, XTILE
Q1	l a) b)	Part – A (Answer all the questions) Answer the following questions: <i>multiple type or dash fill up</i> a primary pollutant have the largest residence time. Earth Summit was held at	type (2 x 10)
2	b) c) d) e) f) g) h)	is the hottest layer of atmosphere. What is the importance of environmental studies? In which year OSHA was enacted? What is the validity period of EIA of a mining project? For rural areas the most suitable solid waste disposal method is For conventional activated sludge process the mixed liquor suspe solid should range between	
2	i) ¹⁰ j)	What is global warming potential? In which year the environment (protection) Act was enacted.	210 210
Q2 2	2 a) b) c) d)	Answer the following questions: Short answer type What is the permissible concentration of 24 hr content of SO ₂ in µ in residential area? Define occupational health. What is a grit chamber? What is meant by IUCN Red list? ²¹⁰ ²¹⁰ ²¹⁰	(2 x 10) g/m3
2'	e) f) g) h)	State field capacity of MSW. What is the basic aim of OHSA? What is the aim of first aid? Find out the CE and DRE of an incinerator from the following Input phenolic waste 18.2%, out put phenol 0.04%, out put concentration of CO is 0.1% and CO ₂ is 25.7%. What is L _{AEQ} ?	
	i) j)	Differentiate between detritus food chain and grazing foodchain.	

210 Q3	a) b)	²¹⁰ <u>Part – B (Answer any four questions)</u> Describe secondary waste water treatment. Discuss oxygen Sag curve.	(10) (5)	210
Q4	a)	What is an Environmental Impact Assessment? Describe the process in detail.	(10)	
210	b)	What is acid rain and the impact of the same on environment?210210210210210	(5)	210
Q5	a)	Differentiate between the term sound pressure level and sound levels, bringing out clearly the basic characteristics of the three types of weighting networks.	(5)	
	b)	On take-off, an aeroplane generates noise level of 120dB. If 5 such aeroplanes take-off simultaneously what will be the noise level?	(5)	
210	(C)	Give an explanation of methane production process.		210
Q6	a) b)	Discuss the three Rs of waste management. Explain three different chemical methods of hazardous waste management.	(5) (5)	
	(C)	Derive an expression for the streeter and phelf equation for ultimate BOD.	(5)	
Q7 210	a)	Define Hazardous Waste and Discuss the pre-transportation preparation of hazardous waste. 210 210 210 210 210	(7)	210
	b) (c)	Discuss is environmental sanitation State communicable disease with example.	(4) (4)	
Q8	a) b)	Differentiate between photochemical smog and reducing smog. State global warming and give a brief description of green house	(5) (6)	
210	(c)	gases $_{210}$ 210 210 210 210 210 210 210 210 210 210	(4)	210
Q9	a) b)	Define biodiversity and its types with suitable example. What is C/N ratio and in what way it affects compostability of solid waste?	(5) (5)	
210	(c)	Explain the biogeochemical cycle with an example. 210 210 210	(5)	210