Registra	ation No :	
Total Nu	umber of Pages : 02 B.Tec	ch.
210	210 210 210 210 210 210 210 PCI4D0	002
	4 th Semester Regular / Back Examination 2017-18	
	ENVIRONMENTAL POLLUTION AND MANAGEMENT	
	BRANCH : CIVIL	
	Time : 3 Hours	
	Max Marks: 100	
	Q.CODE : C1142	
210	Answer Part-A which is compulsory and any four from Part-B.	
210	The figures in the right hand margin indicate marks.	
	Answer all parts of a question at a place.	
	Part – A (Answer all the questions)	
Q1	Answer the following questions: multiple type or dash fill up type: (2 x 1)	0)
	Minamata disease is caused bypollution	•,
b)	The use of microorganism metabolism to remove pollutants such as oil spill in	
210 _	the water bodies is known as :	
²¹⁰ c)	Theoretical oxygen Demand of 300mg/L glucose solution	
	is	
d)		
e) f)	The second Stage BOD is due toWhich of the following is not a material in MSW?	
1)	[A] agricultural wastes [B] food wastes	
	[C] glass and plastic [D] wood wastes	
g)	Which of the following method can be employed for plastic and rubber waste	
210	Disposal 210 210 210 210	
	[A] Incineration [B] Composting	
b)	[C] Pyrolysis [D] Sanitary Landfill	
h)	Bacteria that obtain both energy and material from organic sources are called: [A] Autotrophs [B] Heterotrophs	
	[C] Phototroph [D] Protists	
i)	Which of the following is not primary air pollutant?	
,	[A] Sulphur Dioxide [B] Nitrogen Oxide	
210	[C] Hydrocarbons ²¹⁰ [D] Ozone ²¹⁰ ²¹⁰	
j)	The unit of measurement of intensity of sound is in	
	[A] decibels [B] lux	
	[C] parsec [D] candela	
Q2	Answer the following questions: Short answer type: (2 x 10	0)
a)	Write the significance of nitrification and de-nitrification reactions associated	-,
•	with waste water treatment?	
210 b)	Enumerate the various tests for the parameters associated with water	
,	pollution.	
c)	What are the characteristics of solid waste?	
d) e)	Write the components of biotic environment? What is ISO 14000? What are the series of standards in ISO 14000 family?	
f)	Draw a labelled sketch of any one type of instrument for air pollution control in	
•,	industries.	
g)	What is Eutrophication? Write its effect in aquatic life.	
210 h)	Define Sound Intensity and Power of Sound: Write the relation Between both 210	
i)	Draw flow chart showing functional element of solid waste management.	
j)	Write 5R's.	

									0
	Q3	a)	Write the procedure	Part – B (Answe e generally used	r any four ques	itions) oil spill? Which a	are most	(10)	
210	21	b)	biological friendly? Determine the ultimetest is 0.5/day and I	nate Carbonaceo	us BOD if deox	•		(5)	210
	Q4	a) b)	Discuss the sources Describe the effect	s, causes and rer	mediation of grou			(10) (5)	
	Q5	a)	Determine the effective height of a stack, with the following given data: i. Physical Stack is 160m tall with 0.90 inside diameter						
210	21	0	ii. Wind velocityiii. Air temperatuiv. Barometric Pr	is 2.70m/s re is 20°C ressure is 1000mi ocity is 11m/sec	210 illibar	210	210		210
		b)	Explain in detail examples.	•		dary air polluta	nts with	(5)	
210	Q6 21	0	How and in what m Lapse Rate (ALR) a context draw variou	affect dispersion	of an air pollutar	nt into atmospher		(15)	210
	Q7	a)	Write the Expression 40minutes is follower this noise?					(10)	
		b)	Write the causes ar	nd effects of Noise	e pollution.			(5)	
210	Q8 :1	ି a) b)						(10) (5)	210
	Q9	a) b)	Explain reuse recyc Enlist various parar	•				(10) (5)	
210	21	0	210	210	210	210	210		210
210	21	0	210	210	210	210	210		210
210	21	0	210	210	210	210	210		210