March 2016

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(Please write your Enrollment Number)

Enrollment No. 020 01 03 2015

MINOR- I EXAMINATION (Feb-March 2016)

Subject Co	ode:BAS-106	Subject: Environmental Sciences
Time : 1 3	Hours	Maximum Marks : 30
Note: Q. 1	I is compulsory. Attempt any two	o questions from the rest.
Of		(2.5×4=10)
AND THE PARTY OF T	Discuss the importance of ze What are the consequences What are the sources, effect Write short notes on:	nly used approaches for primary treatment of waste water, ero waste technology giving suitable examples due to the depletion of groundwater? (5,5) is and methods of disposal of radioactive wastes?
Q3		(5,5)
(a)	What devices/methods are Discuss any two briefly.	being used by industries to control particulate emissions?
(b)	Discuss briefly the sources a	nd various categories of water pollutants.
Q4	- W	(5,5)
(a)	 Describe various treatment waste 	and disposal methodologies being used to manage solid
(b)	" Discuss Tools of Green Chen	nistry giving suitable examples.

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First- Term Examination Second Semester B. Tech

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Subject Code: BAS-106 Subject: Env. Sciences Fime: 1.5 hours NOTE: - Attempt any three questions including Question 1, which is compulsory.

21. (a) Explain the concept of atom economy with suitable example.

(b) Discuss the causes and consequences of water-logging.

2.5x4

(Please write your Enrollment Number)

Enrollment	No.	9	
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MID TERM- I EXAMINATION Semester – January 2015 - May 2015

Cubinet	Code:BAS-106	Subject: Environmental Sciences
	1 ½ Hours	Maximum Marks : 30
	Attempt any three questions	
110101		(4,3,3)
Q1		
	What are the sources, sinks	and effects of Carbon monoxide as air pollutant?
	b) Explain in brief, the commo	only used approaches for Secondary treatment of waste
6	water.	
(6	 What is Atom Economy? Give 	e two suitable examples
	App. Section Section 2012 Control of the Samuel Control of the Samuel Section 2012 Control of the Samuel Section 2012 Control of the Samuel Section 2012 Control of the Samuel Control of the	(4,6)
Q2 (a	 What is carbon dioxide sequences 	estration? How can CO2 be sequestered artificially?
(1	(P) (1) (1) (1) (1) (1) (1) (1) (
	(i) Under-nutrition and maln	utrition
	(ii) Salinity and water logging	
	(iii) Desertification	Macrosa Macrosa
Q3		(5,5)
(a) What is photochemical smo	g? Describe the chemistry involved in its formation.
(b	 What are the causes of defore environment. 	restation in India? Describe briefly its effects on the
14		(5,5
(a)	Discuss the physical and che	mical processes used for treatment of hazardous waste
	[[[]	of Green Chemistry giving suitable examples.
(b)	Discuss five basic principles of	of Green Chemistry giving suitable examples.

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Enrollment No. 024 01 03 2015

MINOR- I EXAMINATION (Feb-March 2016)

Subject Cod	e:BAS-106	Subject: Environmental Sciences
Time: 1 1/2 1		Maximum Marks: 30
Note: Q. 1 is	compulsory. Attempt any two	questions from the rest.
or		(2.5x4=10)
四年	Discuss the importance of zer What are the consequences of	ly used approaches for primary treatment of waste water. ro waste technology giving suitable examples due to the depletion of groundwater? (5,5)
THI	Write short notes on:	s and methods of disposal of radioactive wastes? —

June 2022 (CS-AI / ECE-AI)

lease	write your Enrollment Numbe	rr) Enrollment No
		TERM EXAMINATION (CBCS) (CBCS) (SAI/ECE AI), 2 nd Semester (June, 2022)
ubje	ct Code: BAS 106	Subject: Environmental Sciences
ime	: 1.5 Hours	Maximum Marks : 30
lote:	Q. 1 is compulsory. Attempt an	y one question from the rest.
Q1		(4*2.5=10)
	(a) Explain the sources and co	ontrol of CO pollution.
	propyne to Methyl metha (c) Give the classification of	tom economy with the help of a green reaction from acrylate. Fuels with suitable examples. The water harvesting is practiced in India?
VIV. CVC		(5+5=10)
Q2		ary treatment of waste water treatment?
		(5+5=10
Q3		(515-10
	and mention it's affects on hu	existing in the world associated with the rood Problem man health?
	the calorific value in the bom Weight of coal burnt = 0.92 g bomb and calorimeter = 2,20	ing 93% C, 6% H, 1% ash. When this coal was tested for calorimeter, the following data were obtained: m_ Weight of water taken = 550 gm, Water equivalent 0 gm, Rise in temperature = 2.42 °C, Cooling correction = 10.0 cal, Acid correction = 50.0 cal. Calculate the number of the coal in cal/gm. given latent heat of condensation
		(5+5=:
Q		ocesses for the management of Hazardous Wastes.
		refer to "byproducts" rather than "waste". List of term. How the new synthesis of Adipic acid is is better.

(Please write your	Enrollment	Number

Enrollment No	
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Supplementary Examination- ONLINE MODE (CBCS) <B.Tech < Second SEM> (Ian. 2022)

Sub	oject Code: BAS 106	Subject: Environmental So	ciences
	ne : 1 Hour 15 minutes		Maximum Marks : 30
Not	te: Q. 1 is compulsory. Attempt any or	ne question from the rest.	
Q1			
Q1			(5*3=15
	petrol engine fuel is a bad fuel for	number 80. What does it mean? I or diesel engine and vice versa. Arrai ocking properties; methyl cyclohexar	nge the following
	reacting benzoic acid with a co atom economy for the production	d in food industry as a preservative oncentrated solution of sodium car on of sodium benzoate. Judge 1 to 1 to 2 to 2 to 2 to 3 to 3 to 3 to 3 to 3	bonate. Calculate th
	(c) What are the major issues ex mention its effects on human he	disting in the world associated with t	he Food Problems an
Q2			(7.5+7.5= 19
	calorific value in the bomb calori Weight of coal burnt = 0.95 gm, bomb and calorimeter = 2,000 gr 0.02 °C, Fuse wire correction = 10 gross calorific value of the coal in (b) List and Explain the Tertiary tr	reatment of waste water treatment	ained: - ater equivalent of oling correction = alculate the net and
	The tribut and Cr 3. treatment	nt offers higher efficiency with low o	cost, Explain?
(3			175.75-91
	[-CH ₂ -CH(CH ₃)-] ₅₀ is 25 % {Given that atomic mass of the company of the com	and weight average degree of not	₂ -CH(CH ₃)-] ₇₅ is 40 9
	poisoning of local fisherman a	MeHg into Minamata Bay of Jap and their families. Which form on the more case study regarding the	oan (1960) led to the

June 2022 (CSE / ECE)

MID TERM EXAMINATION (CBCS) B. Tech (CSE/ECE), 2 nd Semester (1, 2022)	
Code: BAS 106 Subject: Environmental Sciences Maximum Marks: 30	ubjec
½ Hours	Γime :
1 is compulsory. Attempt any one question from the rest.	Vote:
(4*2.5=10)	Q1
What do you under a distriction of CO ₂ ?	
What do you understand by natural and artificial sequestration of CO ₂ ? Explain in brief the "4 R principle" to be followed for managing solid waste pollution.	
What do you understand by the term "Green starting materials"? Explain it with a suitable example.	
f) Write a short note on (i)Under Nutrition (ii)Mal Nutrition	
(5+5=10)	1
List and Explain the Tertiary treatment of waste water treatment? According to	1
ou which method under 3° treatment offers higher efficiency with low cost, Explain?	1
What is Photochemical smog? Describe the chemistry involved in its formation.	1
(5+5)=10)	Q3
What are the affects of excess usage of chemical fertilizers and pesticides?	(
What is Acid Rain? Explain the chemistry behind the formation of Acid Rain.	(1
(5+5)=10)	Q4
A sample of coal containing 93% C, 6% H, 1% ash. When this coal was tested for	t
calorific value in the bomb calorimeter, the following data were obtained:- ight of coal burnt = 0.92 gm, Weight of water taken = 550 gm, Water equivalent of mb and calorimeter = 2,200 gm, Rise in temperature = 2.42 °C, Cooling correction = 2 °C, Fuse wire correction = 10.0 cal, Acid correction = 50.0 cal. Calculate the net d gross calorific value of the coal in cal/gm. given latent heat of condensation of am = 587 cal/g	(
calorific value in the bomb calorimeter, the following data were obtained:- ight of coal burnt = 0.92 gm, Weight of water taken = 550 gm, Water equivalent of mb and calorimeter = 2,200 gm, Rise in temperature = 2.42 °C, Cooling correction = 2 °C, Fuse wire correction = 10.0 cal, Acid correction = 50.0 cal. Calculate the net d gross calorific value of the coal in cal/gm. given latent heat of condensation of	3