Enrollment No. 020 01 03 2015

MINOR- I EXAMINATION (Feb-March 2016)

Subject Cor	fe:BAS-106	Subject: Environmental Sciences	
Time: 1 ½ Hours		Maximum Marks : 30	
Note: Q. 1	s compulsory. Attempt any two que	estions from the rest.	
Qr		(2.5×4=10)	
MARKET MARKET	What are the sources and sinks o	f SO, as air pollutant?	
HET HET	Explain in brief, the commonly us Discuss the importance of zero w	ed approaches for primary treatment of waste water. aste technology giving suitable examples to the depletion of groundwater?	
Tet.	What are the consequences due	(5,5)	
APL TOTAL	Write short notes on:	d methods of disposal of radioactive wastes?	
Q3	9	(5,5)	
(a)	What devices/methods are being Discuss any two briefly.	g used by industries to control particulate emissions?	
(b)		arious categories of water pollutants.	
Q4	7	(5,5)	
(a)	 Describe various treatment and waste 	disposal methodologies being used to manage solic	
(b)	Discuss Tools of Green Chemistry	giving suitable examples.	

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First- Term Examination Second Semester B. Tech

38

Subject Code: BAS-106 Subject: Env. Sciences Fime: 1.5 hours ROLL NO. February 2014 Max. Marks: 30

NOTE: - Attempt any three questions including Question 1, which is compulsory.

(a) Explain the concept of atom economy with suitable example.
 (b) Discuss the causes and consequences of water-logging.





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

C	hi-st Co	do:845-106	Subject: Environmental Sciences	
Subject Code:BAS-106 Time: 1 ½ Hours			Maximum Marks : 30	
		mpt any three questions		
			(4,3,3)	
Q1				
	(a)	What are the sources, sinks an	d effects of Carbon monoxide as air pollutant?	
	_(b)	Explain in brief, the commonly water.	y used approaches for Secondary treatment of waste	
	(c)	What is Atom Economy? Give to	wo suitable examples	
QZ	E.56		(4,6)	
1	(a)	What is carbon dioxide sequest	ration? How can CO ₂ be sequestered artificially?	
	(b)	Write short notes on:		
		(i) Under-nutrition and malnutr	ition	
		(ii) Salinity and water logging		
		(iii) Desertification	Was I fall for	
23			(5,5)	
2.5	(a)	What is photochemical smog?	Describe the chemistry involved in its formation.	
	(b)	What are the causes of defores environment.	tation in India? Describe briefly its effects on the	
14			(5,5	
	(a)	Discuss the physical and chemic	cal processes used for treatment of hazardous waste	
	(b)		Green Chemistry giving suitable examples.	

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(Please write your Enrollment Number)

Enrollment No. 020 01 03 2015

MINOR- I EXAMINATION (Feb-March 2016)

	e:BAS-106	Subject: Environmental Sciences
Time: 1 ½ Hours		Maximum Marks : 30
Note: Q. 1 is	compulsory. Attempt any	two questions from the rest.
Qt'		(2.5×4=10)
137	What are the sources and	I sinks of SO ₂ as air pollutant? nonly used approaches for primary treatment of waste water.

(Please write	your	Enrollment	Number
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Enrot	lment No	

MID TERM EXAMINATION (CBCS) B. Tech (CSAI/ECE AI), 2nd Semester (June, 2022)

Subject: Environmental Sciences
Maximum Marks : 30

1	Mario Con		(4*2.5=10)
	(a) Exp	lain the sources and control of CO pollution.		
	(b) Exp	plain the concept of atom economy with the help of a gree ppyne to Methyl methacrylate.	n read	tion from
		ve the classification of fuels with suitable examples.	HINE	
	(d) Dis	scuss the ways by which water harvesting is practiced in India?	11878	
12				(5+5=10)
	1	and Explain the secondary treatment of waste water treatment		
	(b) Disc	cuss the sources, sink and effects of oxides of sulphur as air pol	lutant	
				(5+5=10)
Q3	(i) S	te a short note on Salinity (ii) Salt Water Intrusion hat are the major issues existing in the world associated with the salinity of the transport health?	ne Foo	
Q3	(i) S (b) Wh and me	Salinity (ii) Salt Water Intrusion lat are the major issues existing in the world associated with the ention it's affects on human health?	oal wa	od Problems
Q3	(i) S (b) Wh and me	salinity (ii) Salt Water Intrusion note are the major issues existing in the world associated with the ention it's affects on human health? sample of coal containing 93% C, 6% H, 1% ash. When this co- orific value in the bomb calorimeter, the following data were of	oal wa obtain	od Problems as tested for ed:-
Q3	(i) S (b) Wh and me (b) A s the calc Weight bomb a 0.02 °C and gr	salinity (ii) Salt Water Intrusion hat are the major issues existing in the world associated with the ention it's affects on human health? sample of coal containing 93% C, 6% H, 1% ash. When this confict value in the bomb calorimeter, the following data were to to coal burnt = 0.92 gm, Weight of water taken = 550 gm, Weight of water taken = 2.42 °C, Coand Coal Coal Coal Coal Coal Coal Coal Coal	oal wa obtain ater e	od Problems us tested for ed: equivalent of correction ulate the no
Q3	(i) S (b) Wh and me (b) A s the calc Weight bomb a 0.02 °C and gr	salinity (ii) Salt Water Intrusion not are the major issues existing in the world associated with the ention it's affects on human health? sample of coal containing 93% C, 6% H, 1% ash. When this co- orific value in the bomb calorimeter, the following data were of the of coal burnt = 0.92 gm, Weight of water taken = 550 gm, Weight of water taken = 2.42 °C, Co and calorimeter = 2,200 gm, Rise in temperature = 2.42 °C, Co	oal wa obtain ater e	od Problems as tested for ed:- equivalent of correction alate the no densation
	(i) S (b) Wh and me (b) A s the calc Weight bomb a 0.02 °C and gr steam	salinity (ii) Salt Water Intrusion hat are the major issues existing in the world associated with the ention it's affects on human health? sample of coal containing 93% C, 6% H, 1% ash. When this confict value in the bomb calorimeter, the following data were of the coal burnt = 0.92 gm, Weight of water taken = 550 gm, Weight of water taken = 2.42 °C, Co. Fuse wire correction = 10.0 cal, Acid correction = 50.0 calloss calorific value of the coal in cal/gm. given latent heat of = 587 cal/g	pal wa obtain ater e poling Calcu	od Problems as tested for ed:- equivalent of correction alate the no densation
Q3	(i) S (b) Wh and me (b) A s the calc Weight bomb a 0.02 °C and gr steam	salinity (ii) Salt Water Intrusion hat are the major issues existing in the world associated with the ention it's affects on human health? sample of coal containing 93% C, 6% H, 1% ash. When this confict value in the bomb calorimeter, the following data were to to coal burnt = 0.92 gm, Weight of water taken = 550 gm, Weight of water taken = 2.42 °C, Coand Coal Coal Coal Coal Coal Coal Coal Coal	pal was obtain ater e poling Calcust of con	od Problem as tested for ied: equivalent of correction alate the nodensation (5+5=1

Subject Code: BAS 106

Enrollment	No.		

Supplementary Examination- ONLINE MODE (CBCS) <B.Tech < Second SEM> (Jan, 2022)

te: 1 Hour 15 minutes Mate: Q. 1 is compulsory. Attempt any one question from the rest. (a) A gasoline is allotted octane number 80. What does it mean? Expla petrol engine fuel is a bad fuel for diesel engine and vice versa. Arrange to compounds in terms of their knocking properties; methyl cyclohexane, He and Iso pentane.	ne following
(a) A gasoline is allotted octane number 80. What does it mean? Expla petrol engine fuel is a bad fuel for diesel engine and vice versa. Arrange to compounds in terms of their knocking properties; methyl cyclohexane, He	in why a good ne following
petrol engine fuel is a bad fuel for diesel engine and vice versa. Arrange to compounds in terms of their knocking properties; methyl cyclohexane, He	in why a good ne following
petrol engine fuel is a bad fuel for diesel engine and vice versa. Arrange to compounds in terms of their knocking properties; methyl cyclohexane, He	in why a good ne following
petrol engine fuel is a bad fuel for diesel engine and vice versa. Arrange to compounds in terms of their knocking properties; methyl cyclohexane, He	ne following
reacting benzoic acid with a concentrated solution of sodium carbona atom economy for the production of sodium benzoate. (ii) Illustrate the action of toxic heavy metals on enzyme using a suitable e	te. Calculate the example.
(c) What are the major issues existing in the world associated with the Formention its effects on human health?	od Problems and
	(7.5+7.5= 15)
calorific value in the bomb calorimeter, the following data were obtained Weight of coal burnt = 0.95 gm, Weight of water taken = 700 gm, Water of bomb and calorimeter = 2,000 gm, Rise in temperature = 2.48 °C, Cooling 0.02 °C, Fuse wire correction = 10.0 cal, Acid correction = 60.0 cal. Calcula gross calorific value of the coal in cal/gm. (b) List and Explain the Tertiary treatment of waste water treatment? According to the coal in cal/gm.	equivalent of correction = ate the net and
the contract of the contract o	Explains
	(7.5+7.5= 15)
polypropylene polymer with the following composition: [-CH ₂ -CH(CH ₃)-] ₅₀ is 25 %, [-CH ₂ -CH(CH ₃)-] ₁₀₀ is 35 %, [-CH ₂ -CH (Given that atomic mass of C = 12, H = 1) (ii) Calculate the number average and weight average degree of polymerical discharge of MeHg into Minamata Bay of Japan (poisoning of local fisherman and their families. Which form of managements which form of managements which form of managements which form of managements.	(CH ₃)-] ₇₅ is 40 %. zation. 1960) led to the
	 (ii) Illustrate the action of toxic heavy metals on enzyme using a suitable et (c) What are the major issues existing in the world associated with the Formention its effects on human health? (a) A sample of coal containing 92% C, 5% H, 3% ash. When this coal we calorific value in the bomb calorimeter, the following data were obtained Weight of coal burnt = 0.95 gm, Weight of water taken = 700 gm, Water et bomb and calorimeter = 2,000 gm, Rise in temperature = 2.48 °C, Cooling 0.02 °C, Fuse wire correction = 10.0 cal, Acid correction = 60.0 cal. Calcular gross calorific value of the coal in cal/gm. (b) List and Explain the Tertiary treatment of waste water treatment? Accombic which method under 3° treatment offers higher efficiency with low cost, (a) (i) Calculate the number average and weight average mole polypropylene polymer with the following composition: [-CH₂-CH(CH₃)-]₅₀ is 25 %, [-CH₂-CH(CH₃)-]₁₀₀ is 35 %, [-CH₂-CH(CH₃)

BASECAMP | AGENDA

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Intro to the dev3pack program	Intro to blockchain Set up your environement	EVM and Solidity workshop	Build a fullstack decentralized application	Open discussion with current fellows
(ii) DEV3PACK	H BuidlGuidl	H BuidlGuidl	B uidlGuidl	(ii) DEV3PACK







DISCOVERY BASECAMP

WEB3 FULL STACK DEVELOPMENT

ONLINE

9 - 13 JUNE







(Please write	your	Enrollment	Number
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Enrot	lment No	

MID TERM EXAMINATION (CBCS) B. Tech (CSAI/ECE AI), 2nd Semester (June, 2022)

Subject: Environmental Sciences
Maximum Marks : 30

1	Mario Con		(4*2.5=10)	
	(a) Exp	lain the sources and control of CO pollution.			
	(b) Exp	plain the concept of atom economy with the help of a gree ppyne to Methyl methacrylate.	n read	tion from	
		(c) Give the classification of fuels with suitable examples.			
	(d) Dis	scuss the ways by which water harvesting is practiced in India?	11878		
12				(5+5=10)	
	1	and Explain the secondary treatment of waste water treatment			
	(b) Disc	cuss the sources, sink and effects of oxides of sulphur as air pol	lutant		
				(5+5=10)	
Q3	(i) S	te a short note on Salinity (ii) Salt Water Intrusion hat are the major issues existing in the world associated with the salinity of the transport health?	ne Foo		
Q3	(i) S (b) Wh and me	Salinity (ii) Salt Water Intrusion lat are the major issues existing in the world associated with the ention it's affects on human health?	oal wa	od Problems	
Q3	(i) S (b) Wh and me	salinity (ii) Salt Water Intrusion note are the major issues existing in the world associated with the ention it's affects on human health? sample of coal containing 93% C, 6% H, 1% ash. When this co- orific value in the bomb calorimeter, the following data were of	oal wa obtain	od Problems as tested for ed:-	
Q3	(i) S (b) Wh and me (b) A s the calc Weight bomb a 0.02 °C and gr	salinity (ii) Salt Water Intrusion hat are the major issues existing in the world associated with the ention it's affects on human health? sample of coal containing 93% C, 6% H, 1% ash. When this confict value in the bomb calorimeter, the following data were to to coal burnt = 0.92 gm, Weight of water taken = 550 gm, Weight of water taken = 2.42 °C, Coand Coal Coal Coal Coal Coal Coal Coal Coal	oal wa obtain ater e	od Problems us tested for ed: equivalent of correction ulate the no	
Q3	(i) S (b) Wh and me (b) A s the calc Weight bomb a 0.02 °C and gr	salinity (ii) Salt Water Intrusion not are the major issues existing in the world associated with the ention it's affects on human health? sample of coal containing 93% C, 6% H, 1% ash. When this co- orific value in the bomb calorimeter, the following data were of the of coal burnt = 0.92 gm, Weight of water taken = 550 gm, Weight of water taken = 2.42 °C, Co and calorimeter = 2,200 gm, Rise in temperature = 2.42 °C, Co	oal wa obtain ater e	od Problems as tested for ed:- equivalent of correction alate the no densation	
	(i) S (b) Wh and me (b) A s the calc Weight bomb a 0.02 °C and gr steam	salinity (ii) Salt Water Intrusion hat are the major issues existing in the world associated with the ention it's affects on human health? sample of coal containing 93% C, 6% H, 1% ash. When this confict value in the bomb calorimeter, the following data were of the coal burnt = 0.92 gm, Weight of water taken = 550 gm, Weight of water taken = 2.42 °C, Co. Fuse wire correction = 10.0 cal, Acid correction = 50.0 calloss calorific value of the coal in cal/gm. given latent heat of = 587 cal/g	pal wa obtain ater e poling Calcu	od Problems as tested for ed:- equivalent of correction alate the no densation	
Q3	(i) S (b) Wh and me (b) A s the calc Weight bomb a 0.02 °C and gr steam	salinity (ii) Salt Water Intrusion hat are the major issues existing in the world associated with the ention it's affects on human health? sample of coal containing 93% C, 6% H, 1% ash. When this confict value in the bomb calorimeter, the following data were to to coal burnt = 0.92 gm, Weight of water taken = 550 gm, Weight of water taken = 2.42 °C, Coand Coal Coal Coal Coal Coal Coal Coal Coal	pal was obtain ater e poling Calcust of con	od Problem as tested for ied: equivalent of correction alate the nodensation (5+5=1	

Enrollment No._

MID TERM EXAMINATION B. Tech (CSE/ECE), 2nd Semester (June, 2022)

Te de la constante de la const	Subject: Environmental Sciences Maximum Marks : 3
Subject Code: BAS 106	Subject: Environmental Maximum Marks : 3
Time: 1 1/2 Hours	Waxiiidiii waxii
Note:Q. 1 is compulsory. Attem	t any one question from the rest.
	The de

Q1		(4*2.5=10)	
	(a) What do you understand by natural and artificial sec	questration of CO ₂ ?	
	(b) Explain in brief the "4 R principle" to be followed pollution.	TOT III BRIDGING	
	(c) What do you understand by the term "Green start with a suitable example.	ting materials"? Explain it	
	(d) Write a short note on (i)Under Nutrition (ii)Mal Nutrition		
1		(5+5=10)	
X	List and Explain the Tertiary treatment of waste water tr ou which method under 3° treatment offers higher efficient (b) What is Photochemical smog? Describe the chemistry in	ncy with low cost, Explain?	
Q3	(a) What are the affects of excess usage of chemical fertilize	(5+5)=10)	
	(b) What is Acid Rain? Explain the chemistry behind the for		
Q4		(5+5)=10)	
	(a) A sample of coal containing 93% C, 6% H, 1% ash. When this coal was tested for the calorific value in the bomb calorimeter, the following data were obtained:-Weight of coal burnt = 0.92 gm, Weight of water taken = 550 gm, Water equivalent of bomb and calorimeter = 2,200 gm, Rise in temperature = 2.42 °C, Cooling correction = 0.02 °C, Fuse wire correction = 10.0 cal, Acid correction = 50.0 cal. Calculate the net and gross calorific value of the coal in cal/gm. given latent heat of condensation of steam = 587 cal/g		

(b) Discuss any five principles of Green chemistry with suitable examples.



Subject Code: BAS 106

Enrollment	No.		

Subject: Environmental Sciences

Supplementary Examination- ONLINE MODE (CBCS) <B.Tech < Second SEM> (Jan, 2022)

		num Marks: 30	
Note	e: Q. 1 is compulsory. Attempt any one question from the rest.		
Q1			
QI		(5*3=15)	
	(a) A gasoline is allotted octane number 80. What does it mean? Explain vector petrol engine fuel is a bad fuel for diesel engine and vice versa. Arrange the formpounds in terms of their knocking properties; methyl cyclohexane, Hepta and Iso pentane.	following ane, benzene,	
	 (b) (i) Sodium benzoate is used in food industry as a preservative. It can be made reacting benzoic acid with a concentrated solution of sodium carbonate. Calculate atom economy for the production of sodium benzoate. (ii) Illustrate the action of toxic heavy metals on enzyme using a suitable example. 		
	(c) What are the major issues existing in the world associated with the Food mention its effects on human health?	Problems and	
Q2		(7.5+7.5= 15)	
	(a) A sample of coal containing 92% C, 5% H, 3% ash. When this coal was calorific value in the bomb calorimeter, the following data were obtained: - Weight of coal burnt = 0.95 gm, Weight of water taken = 700 gm, Water equi bomb and calorimeter = 2,000 gm, Rise in temperature = 2.48 °C, Cooling cor 0.02 °C, Fuse wire correction = 10.0 cal, Acid correction = 60.0 cal. Calculate gross calorific value of the coal in cal/gm. (b) List and Explain the Tertiary treatment of waste water treatment? Accord which method under 3° treatment offers higher efficiency with low cost, Explain the Tertiary treatment offers higher efficiency with low cost, Explain the Tertiary treatment offers higher efficiency with low cost, Explain the Tertiary treatment offers higher efficiency with low cost, Explain the Tertiary treatment offers higher efficiency with low cost, Explain the Tertiary treatment offers higher efficiency with low cost, Explain the Tertiary treatment offers higher efficiency with low cost, Explain the Tertiary treatment offers higher efficiency with low cost, Explain the Tertiary treatment offers higher efficiency with low cost, Explain the Tertiary treatment offers higher efficiency with low cost, Explain the Tertiary treatment offers higher efficiency with low cost, Explain the Tertiary treatment offers higher efficiency with low cost, Explain the Tertiary treatment of the Te	ivalent of rrection = the net and	
23		175.75.65	
	 (i) Calculate the number average and weight average molecul polypropylene polymer with the following composition: [-CH₂-CH(CH₃)-]₅₀ is 25 %, [-CH₂-CH(CH₃)-]₁₀₀ is 35 %, [-CH₂-	3)-] ₇₅ is 40 %. ion. 50) led to the	