

2	222	3										
3	Ho	ours /	70	Marks	Seat	No.						
	Instri	uctions –	(1)	All Questions	are Comp	ulsor	у.					
			(2)	Answer each i	next main	Que	stion o	on a	new	, pag	ge.	
			(3)	Illustrate your necessary.	answers w	vith	neat sl	ketcł	nes v	where	ever	
			(4)	Figures to the	right indi	cate	full m	arks				
			(5)	Assume suitab	le data, if	nece	essary.					
			(6)	Use of Non-pr Calculator is p	e		lectron	ic P	ocke	t		
			(7)	Mobile Phone, Communication Examination H	n devices a		·					
											Ma	rks
1.		Attempt	any	FIVE of the	following:							10
	a)	Define I	Biotic	and Abotic co	mponents.							
	b)	List any	two	gases causing	global war	rming	5.					
	c)	Name an	ny fo	ur man made a								
	d)		2		air pollutar	nts.						
		List any	•	gaseous pollut	•		uipmen	nts /	met	hods		
	e)	List any Define I	four		•		iipmer	its /	met	hods		
	e) f)	Define I	four BOD.		ion contro		aipmen	nts /	met	hods		
	/	Define I Define s	four BOD. slough	gaseous pollut	ion control	l equ			met	hods		
2.	f) g)	Define I Define s Write ar	four 3OD. slough ny tw	gaseous pollut	ion control g filter. pollution o	l equ contr			met	hods		12
2.	f) g)	Define I Define s Write ar Attempt	four 3OD. slough ny tw any	gaseous pollut ning in trickling o functions of	ion contro g filter. pollution on the following	l equ contr	ol boa		met	hods		12
2.	f) g)	Define I Define s Write ar Attempt Describe	four 3OD. slough ny tw any aqua eat sk	gaseous pollut ning in trickling o functions of <u>THREE</u> of th	ion control g filter. pollution on the following with neat	l equ contr ng: sketc	ol boa	rd.				12
2.	f) g) a)	Define I Define s Write ar Attempt Describe Draw ne applicati	four 3OD. slough ny tw any aqua eat sk on.	gaseous pollut ning in trickling o functions of <u>THREE</u> of the atic ecosystem	ion control g filter. pollution on the following with neat static preci	l equ contr ng: sketc pitat	ol boa ch. or and	rd.	ite it			12

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3.

4.

5.

Marks

Attempt any THREE of the following: 12 Explain construction and working of cyclone separator. a) b) Explain 3R principle in context with solid waste management. Draw neat sketch of trickling filter and name the parts. c) Describe effects of any two pollutants on human health. d) Attempt any THREE of the following: Explain green house effect with causes and possible solution. a) Explain any one method for recovery of energy from waste. b) Describe love canal episode and lesson learned from it. c) d) Describe application of RO in waste water treatment. Write down the salient features of Air Pollution Control Act e) 1981. 12 Attempt any TWO of the following: List out the measures to be taken for controlling air pollution a)

- in sulfuric acid plant.
- b) With neat sketch describe sanitary landfill methods.
- Explain activated sludge treatment method with neat sketch. c)

6. Attempt any TWO of the following:

- a) Explain carbon cycle. State its role in environment.
- b) Explain working of thermal incinerator with neat sketch.
- List primary and secondary methods of waste water treatment. c) Explain sedimentation method to remove solids in waste water.

12

12