

3 Hours / 100 M	arks	Seat No	•							
Instructions :	 (2) Answe (3) Illustr (4) Figure (5) Mobili 	estions are con er each next ma ate your answe es to the right i e Phone, Pager es are not perm	ain que ers with ndicate r and a	estion o h neat s e full n ny othe	sketch 1arks. er Ele	ies wh	ereve		ication	
									Μ	arks
 a) Attempt any thre i) Define air politii) Define water piii) Define water piii) Name the polliv) State any four 	lution. State collution and utants produ	l explain its car iced from urea	uses.			-	ition.			12
 b) Attempt any one i) Explain worki ii) Describe med sketch. 	ng of absorp	-				ing te	chniqu	ue wit	th neat	6
2. Attempt any four :										16
i) Write working pri	nciple of cy	clone separator	with 1	neat ske	etch.					
ii) Define BOD and	COD. State f	their significan	ce.							
iii) Explain working	of trickling f	ilters.								
iv) Explain 3R princi	ple for solid	waste manage	ment.							
v) Give reasons for c	hoosing and	l implementing	, ISO 1	4001 i	n ind	ustries	5.			
3. Attempt any four :										16
i) State the effects o	f air pollutic	on on human he	ealth.							
ii) Explain use of hig	sh volume sε	ampler for parti	iculate	polluti	on sa	mplin	g.			
iii) List out physical a	and chemical	l characteristic	s of wa	aste wa	ter, fo	our ea	ch.			
iv) Explain working	of fabric filte	er with neat lab	eled sl	cetch.						
v) Identify possible	effects of wa	ter pollution of	n ecosy	ystem.						
vi) Describe sludge d	ewatering a	nd disposal me	thod.							

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	Ma	rks
4. a)	Attempt any three :	12
	i) Explain working of activated sludge treatment method.	
	ii) Explain the term :i) Doii) pH	
	1) Do 11) pH iii) TDS iv) TSS	
	iii) Explain working of catalytic incinerator.	
	iv) Explain the need of environmental audit.	
b)	Attempt any one :	6
	i) Explain the recovery of chemicals from black liquor.	
	ii) Explain accreditation and certification process in ISO 14000.	
5. At	tempt any four :	16
i)	List the different control measures of air pollution (Gaseous and particulate)	
ii)	Give classification of medical wastes.	
iii)	State the role of pollution control board.	
iv)	State the purpose and advantages of environmental audit.	
v)	Explain waste water sampling methods.	
vi)	Explain preliminary and primary treatment of waste water.	
6. At	tempt any four :	16
i)	Describe air pollution control method by using electrostatic precipitator.	
ii)	Explain bad effects of carbon monoxide and sulfur oxidies on human health and on plants.	
iii)	Explain activated sludge treatment method for waste water treatment.	
iv)	Explain waste water treatment in urea plant.	
v)	In what way do man-made organic poisons affect river and lake water?	
vi)	Explain factors affecting generation rate of solid waste.	