www.rtmnuonline.com

NRJ/KW/17/3065

Bachelor of Science (B.Sc.) Semester—II (C.B.S.) Examination ENVIRONMENTAL SCIENCE (Introduction to Water and Soil Chemistry)

Compulsory Paper—1

Time	e:T	Three Hours] [Maximum Ma	rks : 50
N.B.	· :—	- (1) ALL questions are compulsory and carry equal marks.	
		(2) Illustrate your answer with suitable examples and diagrams.	
1.	How	v toxic metals and thermal pollutants are responsible for degradation of water quality?	10
		OR	
	1 1	Discuss general requirement for accurate sampling procedure.	5
		What is a chemical composite of sea water and their characteristics ?	5
2.	Expl	lain the theory behind dissolved oxygen estimation with the help of Chemical reactions.	10
		OR	
		Briefly explain the significance of pH in water quality.	5
	(b)	What is the difference between suspended and dissolved solids? How are they measure	
	.		5
3.	Defi	ine Soil. Describe physical properties of soil.	10
	()	OR	~
		Discuss the various types of soil and their characteristics.	5
4		Write informative note on soil profile.	5
4.	Den	ine soil erosion. How are they broadly classified?	10
	(0)	OR	5
		What are the objectives of soil degradation?	5 5
5.		What are the causes of soil degradation? te in short on any ten :	3
3.	(a)	What do you understand by composite type of water sample?	
	` ′	Distinguish between natural and the man-made activities of water quality degradation.	
	(c)	Name the preservative used for fixation of D.O. on site.	
	(d)	Explain the significance of temperature in water quality.	
	(e)	What is the nature of solution that has a pH 8.5 ?	
	(f)	Define non-carbonate hardness.	
	(g)	What is pedology?	
	(h)	Explain the factors affecting soil formation.	
	(i)	Name the important types of the rocks.	
	(j)	Name the agencies responsible for soil erosion.	
	(k)	What are the functions of humus ?	
	(1)	What does NWDR stand for ?	×10-10



