NKT/KS/17/5098

Bachelor of Science (B.Sc.) Semester—II (C.B.S.) Examination

ENVIRONMENTAL SCIENCE

(Introduction to Water and Soil Chemistry)

Compulsory Paper-1

Time: Three Hours]			[Maximum Marks : 50
	N.B.:—(1) ALL questions are co	ompulsory and carry equal marks.	/
	(2) Illustrate your answer	with suitable examples and diagram.	
1.	Describe a method of collecting sample for water or waste water quality testing.		testing. 10
		OR	
	(a) How domestic waste and indust	trial effluents are responsible for degr	- ·
		4	5
	(b) Discuss the effects of thermal p	ollutants on water quality.	5
2.	What is hardness? How are they cla	assified? Explain the method of its e	stimation. 10
		OR	
	(a) High concentration of fluoride i	ons in drinking water are dangerous	for public health. Why?
			5
	(b) What is D.O. ? Why is it signi	ficant parameter of water quality ?	5
3.	Define soil. Explain with sketch soil	profile.	10
		OR	
	(a) Discuss the various component	of soil.	5
	(b) Distinguish between acidic and	basic soil.	5
4.	Discuss the agencies responsible for	soil erosion. Suggest a control measure	ures. 10
		OR	
	(a) Define soil fertility. How is it d	iffer from soil productivity ?	5
	(b) What are the objective of soil	conservation ?	5
NXO	D—16160	1	(Contd.)

5. Write in short (any ten):

- (a) Why there is a need of sample preservation?
- (b) What does NTU stands for ?
- (c) What do you understand by integrated type of water sample?
- (d) Write the information to be submitted along with sample.
- (e) Explain how odour and tastes is measured in water.
- (f) Define alkalinity.
- (g) What is the composition of soil?
- (h) Define weathering.
- (i) What do you understand by cation exchange capacity?
- (j) What are the characteristics of humus?
- (k) What are the functions of National waste land development board?
- (l) Name the branch which delays with the study of soil.

 $1 \times 10 = 10$

