Seventh Semester B. E. Civil Engg. Eighth Semester B. E. (PT) Examination

AIR POLLUTION AND SOLID WASTE MANAGEMENT

	-		Electiv	'e - I		•
Tim	e: T	hree H	ours]		[Max. Mar	ks : 80
N	V. В.	(2)	Answer Three Three question Due credit water adequate dimension Assume suitab Illustrate your the help of the	ons from Soill be giver ensions. Ole data wh answers whe	ection B. 1 to neatne erever nece rever necess	ess and
14.			SECTI	ON A		
1. (a) Define air pollution. Expla pollution.					ious source	s of air
,	(b)	Expla	in meteorologica	al factors aff	ecting air po	ollution. 6
2.	_		effect of air poroperty.	pollution o	n human, a	nimals,
3. ,	(a)	What	is ambient air	sampling ?	*	. 7
	(b)	With behavi	neat sketch export.	plain differe	ent types of	plume 6

RVK/KW/13-3114/3592

Contd.

(a) Explain procedure of collection of SPM by High Volume dust sampler. (b) A factory uses 4.0 million litres of fuel oil per month. The exhaust gases from the factory contains the following quantities of pollutants per million litre per year. Particular matter 26 t SO_2 10 t NO_x HĊ 1.2 t0.6 tCO Determine the safe height of the chimney for the safe dispersion of the pollutants. 6 Write short notes (any two) :-5. Automobile exhaust. (i) (ii) Noise pollution. 14 (iii) Electrostatic precipitators. SECTION B What is solid waste? Explain the various sources 6. of municipal solid waste. (b) State the general composition of solid waste in Indian cities. (c) How sampling of solid waste is done?

RVK/KW/13-3114/3592

Contd.

7. (a)	What are the various methods of solid was collection? Explain with sketches.	te			
(b)	Describe various types of transportation vehicle used for collection and transportation of solid wast	es e			
8. (a)	What is sanitary land filling? State various site requirements for sanitary land filling.				
(b).	filing	ıd			
9. (a)	rest and component diagram of memoration.	7			
(b)		6			
10. Writ	e short notes (any two) :—				
(i)	Factors affecting composting.				
(ii)	Pyrolysis process.				
(iii)	Transfer station and its types.	4			