Total No.	of Questions :6]	SEAT No. :	
P12	TE/Insem./APR-1	5 [Total	No. of Pages : 2
	XXX	.5	
	T.E. (Civil)		7 T
301011: ENVIRONMENTAL ENGINEERING-I			
(2015 Pattern) (Semester - II)			
Time : 1 H	Hourl 9'		Max. Marks: 30
	ons to the candidates:	I.	
	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6.		
	Figures to the right indicate full marks.		
	Use of electronic pocket calculator and steam		Go.
	Neat diagrams must be drawn wherever necess	ary.	
5)	Assume Suitable data, if necessary.		
	~ (o.*		
Q1) a)	Write in tabular form maximum permiss	ible noise levels	during day and
	night for various categories of area.		[5]
b) v	What is lapse rate? Explain dry adiabat	ic lance rate and	l wet adiabatic
0) (lapse rate.	o japse rate and	
	lapse rate.		[5]
	QR O		
Q2) a)	Explain the terms: i) Dust ii) Smoke iii) I	Mist iv) Fog and	v) Fumes. [5]
2,	30		
b)	Differentiate between sound and noise a	lso discuss audio	ological effects
	of noise pollution.		[5]
	26.		
Q3) a)	Explain necessity and importance of war	ter supply schem	ie. [5]
b)	What is need of population forecasting	2 Mantion vario	we methods to
0)	estimate the future population.	! Welldon vario	
	estimate the ruture population.		[5]
	OR		
041.5	Define design maried State design a	for Christian	nomnomente et
Q4) a)	Define design period. State design per	iou for various o	
	water supply scheme.		[5]
b)	Find fire demand for a city with population	n of 15lakh by va	rious formulae.
,	.9		[5]

P.T.O.

- Q5) a) Draw neat sketch of fill and draw type rectangular sedimentation tank and explain its working. [5]
 - b) Find diameter of the particles with specific gravity of 2.65 removed in the sedimentation tank having surface area of 250m² and treating 8MLD of water. Assume temperature of water as 26°c. [5]

OR

- **Q6)** a) Mention various objectives of aeration. Also discuss various limitations of aeration. [5]
 - b) Explain: i) detention period ii) flow through velocity iii) surface loading rate and iv) weir loading. [5]

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