Enrollment No: Ex	xam Seat No:
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C.U.SHAH UNIVERSITY

Summer Examination-2016

Subject Name: Environmental Engineering

Subject Code: 4TE05ENE1 Branch: B.Tech(Civil)

Semester: 5 **Date:** 29/04/2016 **Time:** 2:30 To 5:30 Marks: 70

Instructions

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Explain population equivalent.

Q-1		Attempt the following questions:	(14)
	a)	The atmosphere of big cities is polluted by	01
		(a) household waste (b) Radioactive fallout	
		(c) Automobile exhaust (d) pesticides	
	b)	Coal is main Contributor of	01
		(a) Co_2 (b) Co (c) So (d) N_2	
	c)	Asthma, bronchitis and silicosis diseases are	01
		(a) water borne (b) Air borne	
		(c) both (a) and (b) (d) None of these	
	d)	Which one is the intensity level of noise?	01
		(a) Newton (b) Decibel (c) Pascal (d) Watt	
	e)	Which of the following is an abuse of land?	01
		(a) Fertile land used for industries	
		(b) Fertile land used for bricks production	
		(c) Excavation of soil from fertile land for making highways	
		(d) All of these	
	f)	Which is biggest source of potable water	01
		(a) River (b) ground water (c) storage reservoir (d) lake	
	g)	Define environmental science.	01
	h)	Give full form of BOD and COD.	01
	i)	Define Renewable energy.	01
	j)	Define refuse.	01
	k)	Define rubbish.	01
	l)	Define leachate.	01
	m)	Explain flocculation process in brief.	01

01

	pt any	tour questions from	-			(14)	
Q-2		Attempt all questions					
	a)	Explain various sources of water.					
	b)	Explain the physical, chemical, and biological characteristics of waste water in brief.					
Q-3		Attempt all questions					
	a)	Explain classification of air pollutants.					
	b)	Explain incineration process with its merits and demerits.					
Q-4		Attempt all questions					
	a)	Enlist different components of environment and describe in brief.					
	b)	Explain the types of water demand in urban area.					
	c)	How sound is produced?					
Q-5		Attempt all questi	ons			(14)	
	a)	Discuss self-purific	ation of natural stream	ms.		06	
	b)	Explain factors affecting per capita demand of water.					
	c)	Describe infiltration well with its neat sketch.					
Q-6		Attempt all questions				(14)	
	a)	Explain different phases of microbial growth and draw neat sketch of microbial growth.					
	b)	Effects of Organometallic Compounds on health.					
	c)	What are uses of pesticides and fertilizers?					
Q-7		Attempt all questions					
	a)	Calculate the population of a town after two decades for following data by any					
	,	Two methods.					
			Year	Population			
			1980	25000			
			1990	28000			
			2000	34000			
			2010	42000	7		
	b)	Explain fabric filters with its advantages and disadvantages.					
	c)	Explain solid waste management in brief.					
Q-8	•	Attempt all questions				(14)	
-	a)	Give advantages of renewable energy sources.				05	
	b)	Explain control of noise pollution.				05	
	c)	Explain sustainable development.				04	

