Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PLAN- SEMESTER- V EXAMINATION – WINTER 2018				
Subj	ject (Code:1055506 Date:07/12/2018		
Subj	ect I	Name:Sustainable Urban Development		
Tim	e:10:	30 AM TO 12:30 PM Total Marks: 50		
Instru	ıction	s:		
		Attempt all questions.		
		Make suitable assumptions wherever necessary.		
	3.	Figures to the right indicate full marks.		
Q.1	(a)	What is sustainable development along with its definition?	05	
	(b)	Explain sources and impacts of water pollution.	05	
	(0)	Explain sources and impacts of water pollution.	03	
Q.2	(a)	Explain concepts of Agenda 21 or Brundtland Commission?	05	
	<i>a</i> >		o -	
	(b)	Explain the term Eco-sensitive zone?	05	
	<i>a</i> .	OR	^ -	
	(b)	Explain in brief ECO-CITY approach?	05	
Q.3	(a)	What are the various sources, types and effects of air pollution?	05	
	(b)	Explain what are the challenges in integrating landuse planning and	05	
		transportation planning?		
	<i>a</i> >	OR	0.5	
	(b)	Give examples of 'open spaces' in urban areas. List down any four benefits of	05	
		providing such open spaces in cities.		
Q.4	(a)	Explain the phenomenon of 'Global Warming' with proper sketch and list	05	
	` /	down its impacts.		
	(b)	What are the different types of conservation zones which should be considered	05	

(b) What are the different types of conservation zones which should be considered in land use planning at regional level?

OR

	(b)	Explain the Urban Heat Island effect and its causes and impacts?	05
Q.5	(a)	What are renewable sources of energy and give its examples ?	05
	(b)	Explain about the non-renewable sources of energy with its examples?	05

(b)

What are the direct and indirect benefits of ecosystems?

05