P P SAVANI UNIVERSITY
Second Semester of B. Tech. Examination
May 2019

SECV1010 Environmental Sciences

23.05.2019, Thursday Instructions:

Time: 12:30 p.m. To 03:00 p.m.

Maximum Marks: 60

2. 3.	Section Make s	estion paper comprises of two sections. I I and II must be attempted in separate answer sheets. uitable assumptions and draw neat figures wherever required. scientific calculator is allowed.	
		SECTION - I	
Q - :	1	Define the following (Any Five)	[05]
(i)		Ecology	[03]
(ii)		Eco-system	
(iii)		Species	
(iv)		Population	
(Community	
(IV)		Biomes	
Q - 2	2 (a)	Define environment and explain various Physical components of Environment.	[05]
Q - 2	2 (b)	Define Eco-system and explain characteristics and functions of eco-system	[05]
		OR	[03]
	2 (a)	Explain impact of technology on environment.	[05]
Q - 2	2 (b)	Define Bio-geo-chemical cycles and explain hydrological cycle in detail	[05]
Q - 3	3 (a)	Explain following ecological pyramids with their relative advantages & disadvantages.	
		a) ryramid of energy	[05]
		b) Pyramid of number	
Q - 3	3 (b)	What are the causes of land degradation? Write solutions for the same.	[05]
		OR	[00]
Q - 3		Explain interrelationships between components of environments in detail with diagram.	[05]
Q - 3	(b)	Write down use, advantages and dis-advantages of following energy resources	[05]
		a) Solar Energy	Tool
2		b) Wind Energy	
Q-4		Attempt any one	[05]
(i)		Explain non-renewable Energy resources in detain with advantages and dis advantaged.	
(ii)		Define water scarcity. What are the reasons and solutions for water scarcity.	
		SECTION - II	
Q-1		Answer the following. (Any Five)	FOET
(i)		What is Bio-magnification?	[05]
(ii)		What is a difference between Global warming and climate change?	
(iii)		What is a Dry deposition?	
(iv)		Define Sustainable development.	
(v)		What is a difference between Over population and Population Explosion.	
(iv)		What is a function of a GPCB?	
Q - 2	(a)	Explain in detail Point sources and non-point sources of water pollution.	[05]
Q - 2	(b)	Write down a detail note on Climate change. What are the reasons and effects of the climate	[05]
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	OR	
Q - 2 (a)	Explain land degradation with factors causing, Effects and solutions	[05]
Q - 2 (b)	Explain in detail Ozone layer depletion. What are the reasons and effects for the same.	[05]
Q - 3 (a)	Define Urbanization. What are the Environmental, Social and Economical problems due to	[05]
	Urbanization?	ror1
Q-3 (b)	Define over population and the reasons for the over population OR	[05]
Q-3(a)	Explain in detail Demographic Transition theory.	[05]
Q-3(b)	What are the Roles of different NGOS in improving environmental awareness?	[05]
Q-4	Write a short note on the following (Any two).	[05]
(i)	Nuclear accident and Holocaust.	
(ii)	Sustainable development.	
(iii)	Eutrophication.	