

VEERMATA JIJABAI TECHNOLOGICAL INSTITUTE

[Central Technological Institute, Maharashtra State] Matunga, Mumbai-400 019

MARKS

SEMESTER	EXAMINATION
SEMESTER	& PROGRAM

April 2014 (Se EXAM) DATE OF EXAM 20th May 2014 S. Y. B. Tech, SEM IV TIME: 1.30 -430 pm

Electronics, Electronic &

Telecommunication, Civil

Engineering

TIME ALLOWED COURSE (Course Code)

3 HRS. **Environmental Studies** 100

Instructions

All Questions are compulsory.

- Figures to the right indicate full marks
- 3. Use of scientific calculators is allowed

Q.1	[A]	Fill in the blanks.	[5x1]
	ĺ	Illegal killing of prohibited endangered animals is called	fox.1
	II	The organisms which feed directly on producers are called	
	iii	Terrace farming is practiced as a soil conservation measure in areas.	
	iv	Blue baby syndrome is caused by the presence of in drinking water.	
	V	DDT stands for	
(N)	[B]	Write the correct option as answer to the following objective questions	[5x1]
	1	Effluent discharge standards of BOD	[]
		i) 20 mg/l ii) 30 mg/l iii) 50 mg/l iv)100 mg/l	
	ii	The shape of pyramid of biomass for a pond or any aquatic ecosystem is	
	un C	i) inverted ii)upright iii)linear iv) not certain	
	iii	Chernobyll disaster is associated with	
		i) nuclear accident ii) water pollution iii) air pollution iv) none of these	
	Vi	Which one of the following is not associated with reducing the run-off loss of water	
		i)contour cultivation ii) chemical wetting iii)surface crop residues iv) fallow soil	
	V	The overnourished lakes with 'algal blooms' are called	

- Eutrophic ii) oligotrophic iii) Dystrophic iv) Meromictic
- [C] Answer the following questions in short.

[5x2]

- i) Explain extinct & endangered species.
- Write the acceptable limit for the following drinking water quality parameters viz. pH, Chlorides, Turbidity & Nitrates.
- · · · iii) What is food security?

V) What is a wasteland? Q2 What are the major threats to boildiversity? explain a. 8 Define ecological succesion. Explain the process stating various stages involved. b. What is the need for solid waste management? C 4 Q3 What is watershed? How can it solve the problem of depletion of ground water 8 table? What are the benefits of water shed management? Define noise pollution. State its sources, effects and control measures. b 6 Explain food web and a food chain using sketches. C 6 Explain the functions of following units in wastewater treatment. Q4 a 8 i) Primary Sedimentation tank ii) Aeration Tank iii) sludge digestor iv) screens What are biogeochemical cycles, what is their significance? Explain Carbon Cycle. b 8 Write a brief note on Arsenic pollution. 4 Q.5 Write short notes on following (Any 4) [5x4] Consumerism and waste products a Electrostatic precipitators E-waste d Value Education The Wildlife Protection Act, 1972 Sustainable development

What was the objective of Kyoto Protocol?

iv)