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Program Name and Code : Environmental Science (Code no 2012)

F E (Sem I) (R - 2012)

Maximum marks for the paper: 60 Duration of the paper: 2 hrs

	Sr No.	Topic name	Weig htage	Q1	Q2	Q3	Q4	Q5	Q6	Total
		Multidisciplinary Nature of Environmental Studies:	L	Ĺ						
	01	Scope & importance, Need for Public awareness, Depleting nature of Environmental resources- such as Soil, Water, Minerals and Forests, Global Environmental crisis related to – Population, water, sanitation & Land, ecosystem: Concept, Classification, Structure of ecosystem, Overview of Food Chain, Food Web & Ecological Pyramid.	08	03	-		05		05	13
	02	Sustainable Development: Concept of sustainable development. Social, Economical & Environmental aspects of sustainable development. Control measures: 3R (Reuse, Recovery, Recycle) Appropriate technology, Environmental education, Resource utilization as per the carrying capacity.	08	03	05			05	1	13
-		Environmental Pollution:								
	03	Air pollution: Sources, Effects of air pollution with respect to Global warming, Ozone layer depletion, Acid rain, Photochemical smog, Two control measures:- Bag house filter, Venturi scrubber. Water pollution: Sources & Treatment, Concept of waste waters:- Domestic & Industrial and treatment, Land	16	06	05	05		05	05	26
		Pollution: Solid waste, Solid waste management by Land filling, Composting. Noise pollution: Sources & Effects. E- Pollution: Sources & Effects.								

....Continued on page 2

Program Name and Code : Environmental Studies (FEC106)

F E (Sem I) (R 2012)

Maximum marks for the paper: 60, Duration of the paper: 2 hrs

Sr No.	Topic name	Weig	Q1	Q2	Q3	Q4	Q5	Q6	Total
190.		htage	1						
	Environmental Legislation:		6						
04	Overview, Ministry of Environment & Forest (MoEF) Organizational structure of MoEF. Functions & powers of Central Control Pollution Board, Functions & powers of State Control Pollution Board. Environmental Clearance, Consent & Authorization Mechanism. Environmental Protection Act.	08	03	-	05	05		Ċ	13
	Renewable Sources of Energy:								
05	Limitations of conventional sources of Energy. Various renewable energy sources. Solar energy: Principle, working of Flat plate collector & Photovoltaic cell. Wind Energy: Principle, Wind Turbines. Hydel Energy: Principle, Hydropower generation. Geothermal Energy: Introduction, Steam Power Plant.	12	03	05		05	05	1	18
	Environment & Technology:								
06	Role of Technology in Environment & Health. Concept of Green Buildings, Indoor air pollution. Carbon Credit: Introduction, General concept. Disaster Management: Two Events: Tsunami, Earthquakes and Techniques of Disaster Management.	08	03		05			05	13
		60	15	15	15	15	15	15	96

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Q. P. Set No						
F E : Semester: I, Subject: Environn	irst Year Engineering (FE), Revised Course, nental Studies, : 60, Time Duration: 02 Hrs.	Subject Code: FEC106				
 Instructions:	,					
(i) (iii) (iii) (iv) (v) (v) (v) (v) (v) (v) (v) (v) (v) () Draw figures wherever necessary.					
Q.2. Solve the fol	lowing:					
(a)		(5)				
(b)		(5)				
(c)		(5)				
Q.3. Solve the fol	lowing:					
(a)		(5)				
(b)		(5)				
(c)		(5)				

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