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MED-003/MED-009

POST GRADUATE DIPLOMA IN ENVIRONMENT AND SUSTAINABLE DEVELOPMENT (PGDESD)

Term-End Examination
June, 2015

MED-003/MED-009: ENERGY AND ENVIRONMENT

Time: 2 hours Maximum Marks: 50

Note: Question no. 1 is compulsory. Attempt any three questions from the remaining questions no. 2 to 5.

Support your answers with suitable evidence wherever needed.

- 1. Attempt any four from the following questions:
 - (a) Explain the factors which you consider will lead to increased global demand of electricity over the next 50 years.
 - (b) Discuss the economics of supply of energy. 5
 - (c) How is energy produced in a Nuclear

 Power Plant? Draw a schematic diagram

 of the cross-section of a Nuclear Power

 Plant. 2+3=5

5

	(d)	Highlight the measures that can be used to save energy in residential and commercial sectors in India. $2\frac{1}{2}+2\frac{1}{2}$	=5
	(e)	What is Demand-Side Management? How is it achieved? State its benefits. $2+1+2$	2 =5
2.	You are asked to set up an energy generation plant. What important considerations will you keep in mind to ensure environment-friendly infrastructure? 10		
3.	List the measures for energy sustainability. Explain how waste can be used as an energy resource. $5+5=16$		
4.	Describe any two of the following: $5+5=10$		
-	(a)	Solar Water Heating System utilization in India	
	(b)	Rebound Effect	
	(c)	Energy policies in SAARC Regions	
5.		uss the broad goals for attaining energy ainability as defined by World Energy acil.	10
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6.	prod	e energy scenarios between energy uction and consumption patterns in cloped and developing countries.	10