


Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, May 2019			
Course: Energy Conservation, Audit & Regulation Program: B.Tech. – Electrical Engg + Power System Engg.		Semester: VIII Time: 03 hrs. Max. Marks: 100	
Instructions: All Questions are to be attempted. Maximum marks are mentioned below.			
SECTION A			
		Marks	CO
Q 1	Illustrate the major Primary & Secondary Energy Sources	4	CO1
Q 2	Describe Energy performance Indicators for four different Industries	4	CO2
Q 3	Briefly explain the energy pricing (Electricity & Coal both) in India	4	CO1
Q 4	Illustrate the responsibilities of Energy manager of a plant	4	CO2
Q 5	Describe the dispute resolution authorities under EC Act 2001	4	CO5
SECTION B			
Q 6	Describe Environmental effects of high energy consumption	10	CO1
Q 7	Illustrate the short term, Medium term & Long term strategies for Energy Conservation in India	10	CO1
Q 8	Describe various techniques of enhancing Energy performance	10	CO2
Q 9	Explain the Powers & Functions of BEE as per EC Act 2001	10	CO5
	OR		
	Explain the Roles of SDAs		
SECTION-C			
Q 10	Explain Energy Conservation opportunities in Boiler System	20	CO3
Q 11	Illustrate the power sector reform in India through Electricity Act 2003	20	CO4
	OR		
	Elaborate the Demand Side Management and techniques for it.		

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SECTION A

		Marks	CO
Q 1	Describe the Greenhouse Effect and GHG emission	4	CO1
Q 2	Differentiate between Commercial & Non-Commercial energy.	4	CO1
Q 3	Describe the techniques for Energy conservation opportunities with Steam piping	4	CO3
Q 4	List down the Energy Intensive Industries (DC) as described in EC Act 2001	4	CO5
Q 5	Justify that, Electricity Act 2003 is promoting the use of Renewable energy	4	CO5

SECTION B

Q 6	Describe the energy pricing control techniques in India	10	CO1
Q 7	Please explain i) Thermal power Plants are biggest consumer of energy in India ii) One Unit saved is equivalent to two units generated	10	CO2
Q 8	Describe Benchmarking and its various applications for comparative study	10	CO2
Q 9	Explain the responsibilities and duties of Energy manager OR Explain the powers of central Government as per EC Act 2001	10	CO5

SECTION-C

Q 10	Explain the various energy conservation opportunities with rotary equipment and Motors in industry	20	CO3
Q 11	Describe the strategy for a good Detailed Energy Audit of a process plant OR Explain the scope of preliminary energy audit and how it helps for planning of Detailed Energy Audit	20	CO4