



<b>Name:</b>			
<b>Enrolment No:</b>			
<b>UNIVERSITY OF PETROLEUM AND ENERGY STUDIES</b> <b>Supplementary Examination, June 2020</b>			
<b>Course: Energy Conservation, Audit &amp; Regulation</b>		<b>Semester: VIII</b>	
<b>Program: B.Tech. – Electrical Engg + Power System Engg.</b>		<b>Time: 03 hrs.</b>	
		<b>Max. Marks: 100</b>	
<b>Instructions: All Questions are to be attempted. Maximum marks are mentioned below.</b>			
<b>SECTION A</b>			
		<b>Marks</b>	<b>CO</b>
Q 1	Illustrate the Green House Gases and GHG effect	6	CO1
Q 2	Describe the Commercial Energy	6	CO1
Q 3	Suggest energy conservation opportunities with Induction Motor	6	CO3
Q 4	Highlight the need of EC Act 2001	6	CO5
Q 5	Explain that Electricity Act 2003 encourages the use of Renewable Energy	6	CO5
<b>SECTION B</b>			
Q 6	Describe the techniques to become energy secure country	10	CO1
Q 7	Explain that “One Unit saved is equivalent to two units generated” in public power distribution	10	CO2
Q 8	Justify the use of VFDs for driving Motors	10	CO3
Q 9	Explain energy Benchmarking	10	CO2
Q 10	Explain the responsibilities and duties of Energy manager	10	CO5
	OR		
	Explain the powers of central Government as per EC Act 2001		
<b>SECTION-C</b>			
Q 11	Describe the strategy for a good Detailed Energy Audit of a process plant	20	CO4
	OR		
	Explain the scope of preliminary energy audit and how it helps for planning of Detailed Energy Audit		