



Name:			
Enrolment No:			
<b>UNIVERSITY OF PETROLEUM AND ENERGY STUDIES</b>			
<b>End Semester Examination, December 2018</b>			
<b>Course: Energy Management System (EPEC7022)</b>		<b>Semester: I</b>	
<b>Program: M.Tech. – Energy System + Renewable Energy 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	Describe the Energy Cycle & Carbon Cycle of earth	4	CO1
Q 2	Illustrate the major Primary & Secondary Energy Sources	4	CO2
Q 3	Briefly explain the energy pricing (Electricity & Coal both) in India	4	CO3
Q 4	Describe the dispute resolution authorities under EC Act 2001	4	CO4
Q 5	Describe Energy performance Indicators with 5 examples	4	CO5
<b>SECTION B</b>			
Q 6	Describe Kyoto Protocol & Important CoPs	10	CO1
Q 7	Explain Current Energy Scenario and energy Needs of India	10	CO2
Q 8	Illustrate the short term, Medium term & Long term strategies for Energy Conservation in India	10	CO3
Q 9	Explain the Powers & Functions of BEE as per EC Act 2001 OR Explain the Roles of SDAs	10	CO4
<b>SECTION-C</b>			
Q 10	Explain (with schematic diagram) the “Energy Planning Process”	20	CO5
Q 11	Illustrate the various national missions under NAPCC. Further explain the NMEEE OR Compare PAT scheme of India with International Energy Management System	20	CO4

Name:			
Enrolment No:			
<b>UNIVERSITY OF PETROLEUM AND ENERGY STUDIES</b>			
<b>End Semester Examination, December 2018</b>			
<b>Course: Energy Management System (EPEC7022)</b>		<b>Semester: I</b>	
<b>Program: M.Tech. – Energy System + Renewable Energy 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	Describe the Greenhouse Effect and GHG emission	4	CO1
Q 2	Differentiate between Commercial & Non-Commercial energy.	4	CO2
Q 3	Describe the techniques for Energy Security in India	4	CO3
Q 4	List down the Energy Intensive Industries (DC) as described in EC Act 2001	4	CO4
Q 5	Illustrate the Components of Energy performance	4	CO5
<b>SECTION B</b>			
Q 6	Explain the Clean Development Mechanism	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	Explain the effects of lower oil prices for longer time.	10	CO3
Q 9	Explain the responsibilities and duties of Energy manager OR Explain the powers of central Government as per EC Act 2001	10	CO4
<b>SECTION-C</b>			
Q 10	Explain the “Energy Review” and how is it related with Energy Audit?	20	CO5
Q 11	Explain the PAT mechanism OR Draw the Institutional Design Schematic and Market Design schematic for PAT	20	CO4