Name: University with a private						
UNIVERSITY OF PETROLEUM & ENERGY STUDIES						
	End Semester Examination – May, 2019					
-	Program/course: MA (Energy Economics)Subject: Renewable Energy and Energy Efficiency Economics			: 4 th s: 100		
Code: EC			Duration	: 3 Hrs		
No. of pag	ge/s: 2					
	ns shall be strictly answered in chronologic	al order.				
<u>SECTION A</u>		-	[4*5 Marks = 20 Marks]			
Ques 1	 Briefly explain the following terminolo a) Sustainable Development Goals b) Energy Security c) Decentralized Energy d) Energy Management 	ogies:	20	CO1, CO2		
<u>SECTION B</u> Answer five questions from this section			-	[5*10 Marks = 50 Marks]		
Ques 2	Discuss India's plan and achievements energy.	with respect to renewable	10	CO1, CO2, CO3		
Ques 3	Explain the working of solar PV and w help of a diagram.	ind power technology with the	10	CO2, CO3, CO4		
Ques 4	Highlight the advantages and disadvan comparison to coal-fired electricity.	tages of renewable energy in	10	CO3, CO4		
Ques 5	Storage (Dam) based hydropower has s make it a desirable source of power in Justify.	Ũ	10	CO2, CO3, CO4		

Ques 6Recently, India has experienced sharp reduction in cost of solar power.Discuss the main reasons for such trend.		10	CO1, CO2, CO3
Ques 7	Ques 7Considering time and cost overruns in power projects, energy management seems to be an attractive option for addressing demand- supply deficit. Justify.		CO2, CO3, CO4
<u>SECTION C</u> Answer any one question from this section.		[1*30 Marks = 30 Marks]	
Ques 8	In a house, four 100 W incandescent bulbs can be replaced with four 25 W CFL or four 12 W LED. Assuming 4 hours of lighting per day and Rs 5.00 per unit cost of electricity, estimate annual monetary savings of the household for the two modes of replacement.	30	CO2, CO3, CO4
Ques 9	Adoption of Sustainable Development Goals and Paris Convention has radically transformed global energy industry in the favor of renewable energy and energy efficiency. Justify the statement citing examples.	30	CO2, CO3

<u>Name:</u> Enrolment No:



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e		Semester Max. Marks Duration	: 4 th s: 100 : 3 Hrs	
All question	ns shall be strictly answered in chronological order.			
	SECTION A		[4*5 Marks = 20 Marks]	
Ques 1	 Briefly explain the following terminologies: a) Sustainable Development Goals b) Demand Side Management c) Supply Side Management d) Energy Security 	20	CO1, CO2	
<u>SECTION B</u> <u>Answer five questions from this section</u>		-	[5*10 Marks = 50 Marks]	
Ques 2	Discuss India's plan and achievements with respect to renewable energy.	10	CO1, CO2, CO3	
Ques 3	Solar Parks have inherent advantages that reduces risks associated with development of solar power projects. Justify.	¹ 10	CO2, CO3, CO4	
Ques 4	Highlight the advantages and disadvantages of renewable energy in comparison to coal-fired electricity.	10	CO3, CO4	
Ques 5	Storage (Dam) based hydropower has several distinct advantages that make it a desirable source of power in current Indian power scenario. Justify.	10	CO2, CO3, CO4	
Ques 6	Recently, India has experienced sharp reduction in cost of solar power. Discuss the main reasons for such trend.	. 10	CO1, CO2, CO3	

Ques 7	Considering time and cost overruns in power projects, energy management seems to be an attractive option for addressing demand- supply deficit. Justify.	10	CO2, CO3, CO4
<u>SECTION C</u> Answer any one question from this section.		[1*30 Marks = 30 Marks]	
Ques 8	In a house, three 60 W incandescent bulbs can be replaced with three 25 W CFL or three 12 W LED. Assuming 4 hours of lighting per day and Rs 5.00 per unit cost of electricity, estimate annual monetary savings of the household for the two modes of replacement.	30	CO2, CO3, CO4
Ques 9	Adoption of Sustainable Development Goals and Paris Convention has radically transformed global energy industry in the favor of renewable energy and energy efficiency. Justify the statement citing examples.	30	CO2, CO3