Name: Enrolmo	ent No:			
	UNIVERSITY OF PETROLEUM AND			
C	End Semester Examination, I	•		
Course: Energy Sector Structure and FunctioningSetProgram: BBA Green Energy & SustainabilityTir			mester: II ne : 03 hrs.	
		Max. Marks: 10		
Instruc			0	
	SECTION A			
<u>a 11</u>	10Qx2M=20Marks			
S. No.		Marks	CO	
Q 1	Complete the Abbreviations			
	a. UNFCCC	2	CO1	
	b. MNRE			
Q2.	Give 2 examples of Primary Energy resources.	2	C01	
		2		
Q3	Name anyone Secondary Energy	2	CO1	
Q4	Name 2 types of Solar Energy	2	CO1	
Q5	What is the full form of CEA and CERC?	2	CO1	
Q6	Name any 2 Renewable energy.	2	CO1	
×۵	Traine any 2 Hene walle energy.	_	001	
Q7	How much is Installed Renewable Energy Generation capresent?	pacity in India at 2	CO1	
Q8	Name Minister for Power in India.	2	CO1	
Q9	1 barrel is equal to how many liters?	2	CO1	
Q10	How much is overall Installed Generation Capacity in In-	dia at present? 2	CO1	
	SECTION B	I		
	4Qx5M= 20 Marks			
Q 11	Name all five RLDCs with their Headquarters.	5	CO2	
Q 12	What are the characteristics of Renewable Energy? Explaexamples.	ain with five 5	CO2	
Q 13	Differentiate between Primary Energy and Secondary En	ergy. 5	CO2	
Q 14	Differentiate between Commercial Energy and Non-Co with examples.	mmercial Energy 5	CO2	

	SECTION-C					
3Qx10M=30 Marks						
Q 15	How growth and development of power sector happened in India?					
	Explain future of energy in India.	10	CO3			
Q 16	"World is under Energy Transition which is going to affect Indian Energy Sector and Transportation in drastically manner" – Critically evaluate this statement.	10	СОЗ			
Q 17	Explain Sustainable Energy. How you will select fuel taking care of Economy, Environment and overall Sustainability?	10	CO3			
	SECTION-D					
	2Qx15M= 30 Marks					
	The Union Ministry of New and Renewable Energy (MNRE) announced August 12, 2021 that the country has achieved the milestone of installing 100 gigawatts (GW) of renewable energy capacity. This excluded large hydroelectricity capacities installed in the country, the ministry added. The press release for the announcement said: While 100 GW has been installed, 50 GW is under installation and 27 GW is under tendering. India has also enhanced its ambition to install 450 GW of renewable energy capacity by 2030. If large hydro is included the installed RE capacity increases to 146 GW at present as we have currently 46GW of large Hydro. The achievement is indeed a landmark in India's green portfolio but is still not an encouraging sign of the country attaining its 2022 target of 175 GW installation. In 2015-16, the Centre had announced it would install 175 GW of renewable energy (excluding large hydro) by 2022. This means, the country has 19 months to install the remaining 75 GW it had intended, considering the government was referring to the financial year of 2022-23. Looking at the past performance, the sector will have to make unprecedented progress in these months to achieve the target, according to energy experts. An analysis of monthly installed capacity in the first six months of 2021, after the first wave of the novel coronavirus disease (COVID-19) pandemic, explains this apprehension. Between January and June, only 1GW of renewable energy capacity was installed in a month on an average, according to data by the Central Electricity Authority (CEA) under the Union Ministry of Power. Moreover, the target set for installed solar energy capacity is 100 GW by March 2023 — 40 GW rooftop solar and 60 GW ground-mounted utility scale. The country has managed to install only 43.94 GW till July 31, 2021, the CEA data suggests. The rooftop solar installation has been particularly dismal at 7GW till December 2020, according to Bridge to India, a renewable energy consultancy. India has to quadruple its monthly installation ra					

Q19	Give your suggestions for Renewable Energy growth and development in India in the coming decade for meeting target of emission reduction as per Paris Agreement.	15	CO4
Q18	Attempt both questions :- (30 marks = 2X 15 Marks)Analyse the progress of India for achieving targets of Renewable Energy till 2030 as per facts given in passage and also known to you.	15	CO4
	 (38 megawatts) has been negligible. "The country has also enhanced its ambition to install 450 GW of renewable energy capacity by 2030," read the press note by the ministry. Predictions by experts, however, are comparatively modest. "The capacity predicted at our end is 150 GW by 2025 and 400 GW by 2030," said Samrat Sengupta, programme director of climate change & renewable energy department at the Centre for Science and Environment, a Delhi-based non-profit. Some long-term policies for the solar sector introduced recently may act as dampeners, he noted. The basic Customs duty on imported solar cells and modules effective April 1, 2022 and the mandatory registration for manufacturers of the same under the Approved List of Models and Manufacturers, are some of them, he added. Development in the wind energy industry slowed down in the last five years as solar energy gained a competitive advantage after changes in the feed-in tariff policy, said Sengupta. By 2025, renewable energy capacity development may be bolstered by the entry of competitive storage technology players in the Indian marker, predicted the researcher. 		