


Name:		 UPES UNIVERSITY WITH A PURPOSE	
Enrolment No:			
UNIVERSITY OF PETROLEUM & ENERGY STUDIES End Semester Examination, May, 2021			
Course: Basics of Energy & Utilities		Semester : VIth	
Program: BBA (OG)		Time : 03 Hours	
Code: OGET2001P		Max. Marks : 100	
<i>All questions shall be strictly answered in chronological order.</i>			
<u>SECTION A</u>			[30 Marks]
			<u>Marks</u>
			<u>CO</u>
Q 1	The transmission utility follows an Order of Preference while allowing open access for sale/purchase of power. List the order of preference.	5	CO1
Q 2	How does Home Area Network aid energy conservation?	5	CO2
Q 3	Write a short note on Smart Grids.	5	CO1
Q 4	With reference to a Smart Grid, highlight the role Distribution as constituents of a Smart Grid.	5	CO2
Q 5	Discuss the reasons why Thermal Power Generation is the leading method of Power Generation in India.	5	CO2
Q 6	Discuss any 2 issues related to pipeline operation	5	CO1
<u>SECTION B</u>			[50 marks]
Q 7	Discuss the importance of “Pigging” as a method of pipeline maintenance.	10	CO3
Q 8	Discuss the differences between the Postal Stamp and Point of Connection methods of transmission pricing and highlight their impact on the total cost of power delivered.	10	CO2
Q 9	Discuss the importance of Primary and Secondary Keywords in a HAZOP Study.	10	CO3
Q 10	Discuss the importance of Pipelines as a mode of transport over other methods of transporting petroleum products.	10	CO4
Q 11	Using suitable examples, discuss the following Hazard Identification Techniques a) Fault Tree Analysis b) What – If Analysis	10	CO3
<u>SECTION C</u>			[20 Marks]
Q 12	Discuss in detail the benefits of Home Area Networks to various stakeholders.	20	CO4