

Name:
Enrolment No:



UNIVERSITY OF PETROLEUM & ENERGY STUDIES
End Semester Examination – December, 2019

Course: Energy Economics (Petro & Power)
Program: MBA (ET)
Code: ECON8002

Semester : IIIrd
Time : 03 Hours
Max. Marks : 100

All questions shall be strictly answered in chronological order.

<u>Explain with one line</u>		<u>SECTION A</u>		[20 Marks]	
Q 1	In India, the fuel for electricity generation is mainly a) Natural gas c) Coal	b) Diesel d). Renewables	2	CO1, CO2	
Q 2	Natural gas with high level of Sulphur content is called a) Sour Gas c) Sweet Gas	b) Abiogenic Gas d) None of These	2	CO2, CO3	
Q 3	Write a note on the need and importance of Annual Revenue Requirement prepared by a Distribution Company?		2	CO2, CO3	
Q 4	Which of the following factors affect the price of the commodity a) Demand & Supply c) Location of the commodity		b) Weather d) All of These	2	CO1, CO3
Q 5	The cleanest burning fossil fuel is a) Natural Gas c) Coal		b) LPG d) Biomass	2	CO2, CO3
Q 6	In India, the integrated petroleum business is dominated by a) Private sector c) Private joint ventures		b) Public sector d) None of the Above	2	CO1, CO3
Q 7	What is the course of action in case a discom wishes to increase consumer tariff?		2	CO1, CO2	
Q 8	Why does the Central Transmission Utility stress upon maintaining Grid Frequency?		2	CO2, CO3	
Q 9	A process using natural gas as a supplementary fuel in power plant boilers to reduce emissions of Sulphur dioxide and particulates is called a) Co-Firing c) Eco Firing		b) Natural gas Firing d) None of These	2	CO1, CO2
Q 10	Approved trading margin for power price more than Rs. 3/kWh is a) Rs. 0.07/kWh c) Rs. 0.10/kWh		b) Rs. 0.04/kWh d) Rs. 0.01/kWh	2	CO1, CO2
<u>SECTION B</u>				[20 marks]	
Q 11	Identify the factors that have the potential to influence the energy projects economics.			5	CO3

Q 12	Explain the concept of Cross Subsidizing the Power Tariff for Agricultural Consumers	5	CO1, CO3
Q 13	Evaluate the role of Electricity Demand and Supply in fixation of Consumer Power Tariff.	5	CO2, CO5
Q 14	Should India use Imported Natural Gas in power Generation? Argue For or Against the statement.	5	CO2, CO5
<u>SECTION C</u>		[30 marks]	
Q 15	Analyze the importance of Annual Revenue Requirement prepared and filed by the Distribution Coampany.	15	CO3, CO4
Q 16	Will India be able to increase the share of renewable energy in its primary energy mix? Suffice your answer with supporting arguments.	15	CO2, CO3
<u>SECTION D</u>		[30 Marks]	
	Refer to the Approved Procedure for Ancillary Services Regulation 2015 and answer the following questions:		
Q 17	Debate the pros and cons of different fuel types for power generation.	6	CO3, CO4
Q 18	Review the role of regulation on power generation.	6	CO2, CO3
Q 19	Analyze the financial statement and determine the average weighted cost of capital.	6	CO2, CO4
Q 20	Identify and analyze the significant uncertainties related to construction costs, fuel costs, and taxes on carbon emissions.	6	CO2, CO3
Q 21	Make a recommendation about which fuel type to use for the new power plant and defend likely criticisms of the recommendation to key stakeholder groups.	6	CO3, CO4