Name: Enrolment No:



Semester

Duration

Max. Marks: 100

: I

: 3 Hrs

UNIVERSITY OF PETROLEUM & ENERGY STUDIES End Semester Examination – December, 2018

Program/course: MBA (ET)
Subject: Understanding Energy Value Chain (Power and Coal)

Code: OGET7002

No. of page/s: 8

All questions shall be strictly answered in chronological order.

SECTION A		[20 Marks]	
Ques 1	Which of the following happens in Carbonisation?: a) Dead vegetation is converted to coal b) Carbon gets liberated into nature c) Carbon is formed from coal d) Carbon is formed from nature	2	CO1
Ques 2	Coal India produces% of total coal produced in India: a) 70% b) 80% c) 85% d) 90%	2	CO2
Ques 3	Why is Indian coal is not considered to be the best coal for power generation.	2	CO1, CO2
Ques 4	India plans to produce at least% of its power from non-fossil fuel sources by 2030 a) 25% b) 30% c) 35% d) 40%	2	CO1
Ques 5	Which of the following is not a renewable fuel of generation: a) Bagasse b) Geothermal Energy c) Solar Heat d) Liquefied Natural Gas	2	CO2
Ques 6	Name any 2 private distribution companies in India.	2	CO2, CO3
Ques 7	What are the key criteria for testing coal quality?: a) Calorific value, moisture, and volatile content b) Calorific value, volatile content, sulphur content and ash content c) Volatile content, ash content, carbon content and grindability	2	CO1, CO3

	d) Calorific value, moisture, ash content, volatile content and Sulphur content			
Ques8	Define Power Trading in accordance to Electricity Act 2003.	2	CO1	
Ques9	Central Transmission Utility for India is	2	CO2	
Ques 10	Surface mining accounts for around% of total produced coal a) 38% b) 40% c) 42% d) 45%	2	CO1	
SECTION B		[20	[20 marks]	
Ques 11	Describe coal liquefaction process and its advantages.	5	CO3, CO4	
Ques 12	Analyze the use of Liquid Fuels as a fuel source for power generation.	5	CO2, CO3	
Ques 13	Provide the comparative analysis of coal substitutes for power generation	5	CO1, CO2	
Ques 14	Evaluate the advantages of Pulverizing Coal prior to use in power plants.	5	CO4	
SECTION C		[30 Marks]		
Ques 15	Analyze the importance of coal in Indian energy mix. Can Natural gas replace coal in near term?	10	CO3,CO4	
Ques 16	Provide a comparative analysis of Postal Stamp and Point of Connection Transmission Pricing Systems.	10	CO4	
Ques 17	Critically analyze the efficiency of a power plant highlighting the factors affecting the efficiency and the methods to improve the efficiency.	10	CO3,CO4	
SECTION D		[30 Marks]		
	Refer to the attached case and answer the following questions:			
Ques 18	What were the reasons for restructuring the Gujarat Electricity Board?	6	CO2, CO4	
Ques 19	What are the various lessons to be learnt from the restructuring of GEB?	6	CO3, CO4	
Ques 20	Analyze "Driving External Change as a Socio Economic Process"	6	CO2, CO3	
Ques 21	The success of Restructuring GEB can be replicated? Discuss for or against the statement.	6	CO2, CO4	
Ques 22	Discuss the learnings for Irrigation Leaders for initiating the change process.	6	CO2, CO3	



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SECTION A		[20]	[20 Marks]	
Ques 1	Which of the following happens in Carbonisation?: a) Dead vegetation is converted to coal b) Carbon gets liberated into nature c) Carbon is formed from coal d) Carbon is formed from nature	2	CO1	
Ques 2	Coal India produces% of total coal produced in India: a) 70% b) 80% c) 85% d) 90%	2	CO2	
Ques 3	What is Pulverization of coal?	2	CO1, CO2	
Ques 4	India plans to produce at least% of its power from non-fossil fuel sources by 2030 a) 25% b) 30% c) 35% d) 40%	2	CO1	
Ques 5	Which of the following is a RE generation source: a) Municipal Solid Waste b) Coal c) Diesel Fuel d) Liquefied Natural Gas	2	CO2	
Ques 6	Name any 2 private transmission companies in India.	2	CO2, CO3	
Ques 7	What are the key criteria for testing coal quality?: e) Calorific value, moisture, and volatile content f) Calorific value, volatile content, sulphur content and ash content g) Volatile content, ash content, carbon content and grindability h) Calorific value, moisture, ash content, volatile content and Sulphur content	2	CO1	

Ques8	Total Installed Generation Capacity of India as on 31st August 2018 is	2	CO1
Ques9	Surface mining accounts for around% of total produced coal a) 38% b) 40% c) 42% d) 45%	2	СОЗ
Ques 10	Name the largest coal and gas based generating stations in India with capacity.	3	CO1
SECTION B		[20 marks]	
Ques 11	What is the difference between Natural Gas and Manufactured Gas. Why is Manufactured Gas considered to be unfit for Power Generation	5	CO3, CO4
Ques 12	Analyze the use of Gaseous Fuels as a fuel source for power generation.	5	CO2, CO3
Ques 13	Thermal Power can be generated by use of various fuel sources. Provide a comparative analysis all such fuel sources used for power generation	5	CO1, CO2
Ques 14	Evaluate the advantages of Coal Washing prior to use in power plants.	5	CO4
SECTION C		[30 Marks]	
Ques 15	Analyze the importance of coal in Indian energy mix. Can Natural gas replace coal in near term?	15	CO3,CO4
Ques 16	Discuss the role of the following utilities in Power Transmission a) Load Despatch Centresb) Inter State Transmission System .	15	CO4
SECTION D		[30 Marks]	
	Refer to the attached case and answer the following questions:		
Ques 18	What were the reasons for restructuring the Gujarat Electricity Board?	6	CO2, CO4
Ques 19	What are the various lessons to be learnt from the restructuring of GEB?	6	CO3, CO4
Ques 20	Analyze "Driving External Change as a Socio Economic Process"	6	CO2, CO3
Ques 21	The success of Restructuring GEB can be replicated? Discuss for or against the statement.	6	CO2, CO4
Ques 22	Discuss the learnings for Irrigation Leaders for initiating the change process.	6	CO2, CO3