Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2024

Course: Power Transmission and Distribution

Program: MBA Power Management

Course Code: PIPM7003

Semester: 2nd Time: 03 hrs.

Max. Marks: 100

Instructions:

Histruc			
	SECTION A 10Qx2M=20Marks		
S. No.		Marks	СО
Q1.	Write a note on the Power Sector in India.	2	CO1
Q2.	Which of the following entity is considered to be the Nodal RLDC: a) RLDC of the Exporting entity b) Intervening RLDC c) RLDC of the Importing entity d) Any RLDC can be randomly appointed	2	CO2
Q3.	What is the importance of Ancillary Services as per the IEGC?	2	CO2
Q4.	Which is the oldest operating private power distribution company in India?	2	CO1
Q5.	What is the primary benefit of the Point of Connection Transmission Pricing method over the Postal Stamp Transmission Pricing Method?	2	CO2
Q6.	Excessive under-drawl of power leads to an unwanted increase in grid frequency. (True/False)	2	CO2
Q7.	List the various utilities involved in the Transmission of Power.	2	CO1
Q8.	In the case of intra-state operations, RLDC is considered to be the supreme authority. Comment on the correctness of the statement.	2	CO1
Q9.	Which of the following activity is not a part of Distribution Operations: a. Demand Forecasting b. Sub Station Operations c. Billing and Payments d. Metering	2	CO1
Q10.	Transmission of Power in India is a licensed activity. (True/False)	2	CO1
	SECTION B		•
	4Qx5M= 20 Marks		
Q11.	Discuss the role and responsibility of the Nodal RLDC in an Open Access Transaction.	5	CO2
Q12.	Discuss the importance of calculating Levelized Cost of Transmission.	5	CO2
Q13	What are the challenges of Distribution Companies?	5	CO3
			1

Q14			m applicable for Unsc nagement technique. Comi		5	CO3
	<u> </u>	S	ECTION-C 10M=30 Marks	,		1
	During day to de			nnany is		
Q15.	.During day to day operations, Under Drawal by a distribution company is always better and rewarding as compared to Over Drawal. Comment of the				10	CO3
	statement by considering suitable assumptions.					
Q16.	Discuss in detail the objectives of the Revamped Distribution Sector Scheme (RDSS).				10	CO4
Q17.		s the need and importance of submitting an ARR by the distribution			10	CO3
	Company.	S	SECTION-D			
			30M= 30 Marks			
	= -	-	chase for a Distribution Co			
l	*	you have to purchase 2000 MW power. The following purchase options				
	are available to y	ou:			15	CO4
	SGS and ISGS					
Q18.	Source 1	750 MW	Rs. 1.30			
	Source 2	500 MW	Rs. 2.00			
	Source 3	450 MW	Rs. 2.80			
	Source 4	550 MW	Rs. 3.60			
	Source 5	200 MW	Rs. 4.50			
	Source 6	150 MW	Rs. 5.00			
	Source 7	50 MW	Rs. 6.00			
	Long Term Open Access					
	Source 1	500 MW	Rs. 2.30			
	Short Term Open Access					
	Source 1	60 MW	Rs. 3.65			
	Source 2	50 MW	Rs. 3.95			
	Additionally, the second discom operating in the state has confirmed					
	availability of 20 MW power under Inter Discom Transfer. The prevailing					
	power exchange tariff is Rs. 2.65/kWh.					
	power exchange turn is res. 2.05/R wit.					

	Your aim as the in-charge for power purchase is to ensure reliable power supply and minimize the cost.		
	Provide a strategy for power purchase and real time operations. Give valid reasons for your choices.		
Q19	The Electricity Act, 2003 was not less than a revolution in the Indian Power Sector. Comment on the statement by highlighting some of the provisions that in your opinion revolutionized the power sector	15	CO4