UPES
UNIVERSITY OF TOMORROW

End Semester Examination – May, 2023

Program/course: MBA (Power Management)   **Semester   : 4th**

Subject: Integrated Power Resources Management and Power Sector Planning

Max. Marks: 100

Code: PIPM 8005   **Duration   : 3 Hrs**

No. of page/s: 2

All questions shall be strictly answered in chronological order.

	SECTION A	[4*5 Marks = 20 Marks]	
Ques 1	Briefly explain the following terminologies and their impact on the choice of power resources: a) Sustainable Development Goals b) Energy Security c) Zero Carbon Footprint d) Decentralized Energy	**20**	**CO1**
	SECTION B **Answer all questions**	[5*10 Marks = 50 Marks]	
Ques 2	Based on Draft National Electricity Plan, discuss the future electricity mix of India.	**10**	**CO2**
Ques 3	Electric Vehicles and Electricity Storage Options are expected to radically transform power sector in India. Discuss.	**10**	**CO2**

Ques 4	Integrated power resources management is essentially dependent on effective implementation of smart grid. Justify.	10	CO2
Ques 5	Based on Grameen Shakti experiment with solar home systems in Bangladesh, develop a plan for promoting solar home systems in Indian villages.	10	CO2
Ques 6	Briefly discuss two qualitative methods and two quantitative methods of forecasting.	10	CO2
SECTION C **Answer any one question from this section.**		**[1*30 Marks = 30 Marks]**	
Ques 7	Discuss the factors that are generally considered for estimating future electricity demand. Also, discuss the methodology adopted in Draft National Electricity Plan for estimation of future electricity demand.	30	CO3
Ques 8	Global trends indicate that renewable power has achieved grid parity with conventional power and it is expected that renewable power cost is going to get further down. Explain with appropriate justification.	30	CO3