Name: **Enrolment No:**	UPES UNIVERSITY OF TOMORROW

End Semester Examination – May, 2025

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

Subject: Integrated Power Resources Management and Power Sector Planning

Max. Marks: 100

Code: PIPM 8016 **Duration : 3 Hrs**

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SECTION A		**[4*5 Marks = 20 Marks]**	
Ques 1	Briefly explain the following terminologies and their impact on the choice of power resources for India: a) Net Zero India 2070 b) Panchamrit Goals c) Energy Security d) Base Load for 24x7 Electricity	**20**	**CO1**
SECTION B **Answer all questions**		**[5*10 Marks = 50 Marks]**	
Ques 2	Renewable Energy, Electric Vehicles, and Electricity Storage Options are complementary to each other in India's aspiration to achieve its climate goals. Justify.	**10**	**CO2**
Ques 3	Discuss the salient features of India's National Electricity Plan.	**10**	**CO2**

Ques 4	Discuss the role of Smart Grid in the achievement of India's Panchamrit Goals.	**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 and explain why accurate forecasting for power sector is so challenging.	**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**