

Name:

Enrolment No:



End Semester Examination – May, 2024

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

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) 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 and India's commitment to the Net Zero Emission goals, 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
<p><u>SECTION C</u></p> <p>Answer any one question from this section.</p>		<p>[1*30 Marks = 30 Marks]</p>	
Ques 7	Discuss the factors that are generally considered for estimating future electricity demand and explain why accurate forecasting 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