


Name: Enrolment No:			
<p align="center">UNIVERSITY OF PETROLEUM AND ENERGY STUDIES</p> <p align="center">End Semester Examination, May 2025</p> <p> Course: Energy Analytics and Modeling Semester: II Program: MBA Power Management Time : 03 hrs. Course Code: PIPM8012P Max. Marks: 100 Instructions: Set2 </p>			
<p align="center">SECTION A</p> <p align="center">10Qx2M=20Marks</p>			
S. No.		Marks	CO
Q 1	Complete the Abbreviations a. IIOT b. NLP	2	CO1
Q2.	What is Energy Analytics? Describe in short.	2	CO1
Q3	What is Predictive Analysis? Explain	2	CO1
Q4	What is usages of Data Analysis? Explain.	2	CO1
Q5	Describe Prescriptive Analysis.	2	CO1
Q6	What is Diagnostic Analysis? Explain.	2	CO1
Q7	What is Cognatic Analysis? Explain.	2	CO1
Q8	Explain process of Data Analysis.	2	CO1
Q9	What are full forms of SCADA and GIS?	2	CO1
Q10	Explain Descriptive Analysis.	2	CO1
<p align="center">SECTION B</p> <p align="center">4Qx5M= 20 Marks</p>			
Q 11	Explain Big Data and IOT with its usages in Power Sector.	5	CO2
Q 12	Describe GIS and SCADA and its usages in Power Sector with examples.	5	CO2
Q 13	What is Smart Grid? Explain roles of IT for this.	5	CO2
Q 14	“Cloud Computing can play a great role in Energy Sector” - explain with examples.	5	CO2

SECTION-C 3Qx10M=30 Marks			
Q 15	Explain and critically evaluate roles and applications of AL and ML in Power sector with suitable examples.	10	CO3
Q 16	“We are under Digital Transition which is going to affect Indian Power Sector drastically” – Critically evaluate this statement.	10	CO3
Q 17	How IT and Energy Analytics will effect of Economy, Environment and overall Sustainability in Energy Sector? Explain with examples.	10	CO3

SECTION-D
30 Marks

Q 18. Discuss the importance of energy analytics in the energy sector. Name various tools used in energy analytics. Select any one application in details.