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| 10. | In MHD generator ,as combustion temperature increases | CO5 | [K5] |
| a) | Electrical conductivity increases | b) | Hall parameter increases |
| c) | Electrical conductivity and hall parameter increase | d) | Electrical conductivity and hall parameter decreases |

PART B (10 x 2 = 20 Marks)

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| 11. | List the stages of energy management and energy planning | CO1 | [K2] |
| 12. | What are the limitations of nuclear energy | CO1 | [K1] |
| 13. | Classify the forecasting techniques in energy management | CO2 | [K2] |
| 14. | Why the optimization of energy sources are needed? | CO2 | [K2] |
| 15. | What is significance of Bio-geo–chemical cycle? | CO3 | [K2] |
| 16. | Spell out the social impact of carbon cycle? | CO3 | [K2] |
| 17. | Draw the block diagram of petroleum refinery and label the parts | CO4 | [K2] |
| 18. | What the process sequence in the food industry? | CO4 | [K2] |
| 19. | Outline the economics of solar power plants | CO5 | [K2] |
| 20. | Mention the limitations of fuel cells | CO5 | [K2] |

PART C (6 x 5 = 30 Marks)

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| 21. | Give an account of supply and demand of energy sources | CO1 | [K2] |
| 22. | Compare the top down and bottom up energy modeling | CO2 | [K2] |
| 23. | Discuss the pattern of energy consumption in developing countries | CO3 | [K2] |
| 24. | Illustrate the energy conservation for a paper industry | CO4 | [K3] |
| 25. | Explain the energy conservation technique in cooling tower | CO4 | [K ₂] |
| 26. | Describe wind power production analysis for a corporate | CO5 | [K2] |

PART D (4 x 10 = 40 Marks)

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| 27. | Discuss the energy requirements, conservation needs and issues for a city like Coimbatore | CO1 | [K3] |
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| 28. Illustrate carbon cycle considering the society, population and technology | CO3 | [K3] |
| 29. Describe energy conservation optimization technique for a chemical Industry | CO4 | [K3] |
| 30. Describe the production analysis of MHD power plant | CO5 | [K3] |
