

1456**Code : 15ME63B****Register
Number**

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VI Semester Diploma Examination, Oct./Nov.-2021**POWER PLANT ENGINEERING****Time : 3 Hours]****[Max. Marks : 100**

Special Note : Students can answer for max. of 100 marks, selecting any subsection from any main section.

PART – A

1. Define : 5
 - (a) Peak load
 - (b) Base load
2. List the various factors affecting the operation of power plant. 5
3. List the essential components of a hydroelectric power plant. 5
4. List the advantages and limitations of open cycle and closed cycle gas turbine. 5
5. List and explain the types of VAWT. 5
6. List factors affecting distribution of wind energy. 5
7. List the reasons for air pollution due to power plant. 5
8. List the classification of fuel firing. 5
9. List the advantages and disadvantages of diesel power plant. 5



PART – B

10. Explain various considerations while evaluating cost of electrical energy. 10
 11. Explain the choice of power plant. 10
 12. Explain with a neat sketch the governing of impulse turbine. 10
 13. Explain the different methods of coal handling system. 10
 14. Explain gravity system with sketch. 10
 15. Choose the various methods involved in disposing of nuclear wastes. 10
 16. Explain the various water and air pollution caused by thermal power plants and its control. 10
 17. Explain with a neat sketch wind energy conversion system. 10
 18. Explain the layout of hydroelectric power plant with neat sketch. 10
 19. Explain social and economical issues related to power plants. 10
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