

**1524****Code : 15ME63B****Register  
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**VI Semester Diploma Examination, April/May-2019****POWER PLANT ENGINEERING****Time : 3 Hours ]****[ Max. Marks : 100**

- Note :** (i) Answer any **six** questions from PART – A.  
(ii) Answer any **seven** questions from PART – B.

**PART – A**

1. List the various factors considered for location of power plant. **5**
2. Explain : **5**
  - (i) Load Curve
  - (ii) Peak Load
3. Classify hydroelectric power plant. **5**
4. Explain in brief pulverizing of Coal. **5**
5. List the various steps involved in coal handling system. **5**
6. Define Nuclear fusion and Nuclear Fission. **5**
7. List the advantages and Limitations of closed cycle gas turbine. **5**
8. List the advantages and disadvantages of diesel power plant. **5**
9. Explain the purpose of standardization of Environmental Pollution. **5**

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**PART - B**

10. Sketch and Explain the storage River plant and pumped storage plant. 10
11. Explain with neat sketch the Governing of impulse turbine. 10
12. (a) Sketch and Explain the general layout of Thermal power plant. 6  
(b) Explain method used for Coal Storage System. 4
13. (a) Explain with neat sketch, Electro Static Precipitation (ESP system) 7  
(b) Classify fuel firing. 3
14. (a) Explain with neat sketch, boiling water Reactor. 8  
(b) State the function of following components of gas turbine : 2  
(i) Compressor  
(ii) Combustion chamber
15. (a) Choose the various methods involved in disposing of Nuclear Wastes. 7  
(b) Explain briefly natural and artificial radio activity. 3
16. (a) Sketch and Explain a layout of diesel power plant. 7  
(b) List the types of rotors Horizontal Axis Wind Turbine (HAWT). 3
17. (a) Explain Maximum Power Point Tracker (MPPT). 7  
(b) Explain briefly Solar cells. 3
18. Explain Acid Rain, Acid Snow and Acid Fog. 10
19. (a) Explain with neat Sketch, Wind Energy Conversion System (WECS). 6  
(b) Explain measures to be taken by Power Plants to avoid noise pollution. 4