

**1274****Code : 15ME63B***Register  
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**VI Semester Diploma Examination, Nov./Dec.-2018****POWER PLANT ENGINEERING****Time : 3 Hours ]****[ Max. Marks : 100****Note :** Answer any six from Part – A and any seven from Part – B.**PART – A**

1. List any five hydro-electric power plants in India. 5
2. Define : 5
  - (i) Base load
  - (ii) Peak load
3. List the different types of hydro-electric power plants. 5
4. Explain run-off river plants without pondage and with pondage. 5
5. What are the steps involved in coal handling ? 5
6. What is the importance of nuclear power plant ? 5
7. List any three advantages and two disadvantages of gas turbine power plant. 5
8. Write the sketch of wind energy conversion system and label its parts. 5
9. List the control and remedial measures for Global Warming. 5



**PART – B**

10. Explain mini and micro hydel power plants. 10
11. With a neat sketch, explain working of Kaplan turbine. 10
12. Explain main flow circuits of thermal power plant. 10
13. Make use of sketch, explain pneumatic ash handling system. 10
14. With a line diagram, explain closed cycle gas turbine power plant. 10
15. (a) Explain briefly types of nuclear wastes. 5  
(b) What is the necessity of nuclear waste disposal ? 5
16. Explain factors affecting energy output of wind turbine. 10
17. Sketch and explain : 10  
(i) Up wind turbine  
(ii) Down wind turbine
18. Explain : 10  
(i) Acid precipitation  
(ii) Acid rain  
(iii) Acid snow
19. (a) Write any three advantages and two disadvantages of diesel power plant. 5  
(b) Mention the effects of global warming. 5
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