

3453**Code : 15ME63B****Register
Number**

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

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

PART – A

1. List any ten classifications of Power Plants. 5
2. Explain Load Curve. 5
3. List any five factors to be considered while selecting the site for Hydroelectric Power Plant. 5
4. Explain briefly Pulverizing of coal. 5
5. List any ten different types of Hydroelectric Power Plant. 5
6. List any three advantages and any two disadvantages of Diesel Power Plant. 5
7. List any five applications of Solar cell. 5
8. List any five Social issues related to Power Plant. 5
9. Explain about Acid rain and Acid snow. 5



PART – B

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| 10. | Sketch and explain the storage river plant and pumped storage plant. | 10 |
| 11. | Sketch and explain the layout of Hydro-electric power plant. | 10 |
| 12. | Sketch and explain general layout of Thermal Power Plant. | 10 |
| 13. | Explain with a neat sketch mechanical feed water treatment. | 10 |
| 14. | Explain with a neat sketch Boiling Water Reactor (BWR). | 10 |
| 15. | Sketch and explain closed cycle gas turbine power plant. | 10 |
| 16. | (a) List any five advantages of Gas turbine Power Plant. | 5 |
| | (b) Draw a neat sketch of Nuclear Power Plant and label the parts. | 5 |
| 17. | Explain with a block diagram of Wind Energy Conversion System (WECS). | 10 |
| 18. | Sketch and explain layout of Diesel Power Plant. | 10 |
| 19. | (a) Explain briefly about Green House Effect. | 5 |
| | (b) Explain briefly Nuclear Pollution. | 5 |
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