

1060**Code : 15ME63B***Register
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VI Semester Diploma Examination, Oct./Nov.-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 any five factors to be considered for selection of site for power plant. **5**
2. State any five advantages of pulverized coal. **5**
3. List the classification of hydro electric power plants. **5**
4. List different types of tariffs and explain three part tariff. **5**
5. Draw the layout of pumped storage power plant. **5**
6. Explain : (i) Nuclear fission (ii) Nuclear fusion. **5**
7. With a line diagram, explain working of open cycle gas turbine power plant. **5**
8. List the factors affecting distribution of wind energy. **5**
9. Explain green house effect. **5**



PART – B

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| 10. | Explain the layout of hydro electric power plant, with a neat sketch. | 10 |
| 11. | Explain with a neat sketch governing of impulse turbine. | 10 |
| 12. | Explain with a neat sketch Mechanical feed water treatment. | 10 |
| 13. | Explain with a sketch chain grate stoker. | 10 |
| 14. | (a) Sketch and explain Boiling Water Reactor. | 8 |
| | (b) State any two advantages of BWR. | 2 |
| 15. | (a) List any five advantages of gas turbine plant over nuclear power plant. | 5 |
| | (b) Explain, briefly low level nuclear waste disposal. | 5 |
| 16. | Explain with sketch working of Horizontal axis wind turbine. | 10 |
| 17. | Explain the essential components of Diesel power plant. | 10 |
| 18. | (a) Explain any six methods to control global warming by power plants. | 6 |
| | (b) Explain any four safety practices to be followed in boiler operation. | 4 |
| 19. | (a) Explain any two measures taken by power plant to avoid air pollution. | 5 |
| | (b) Explain fuel supply system and Air intake system in Diesel power plant. | 5 |
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