

1169

Code : 15EE-32T

Register
Number

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III Semester Diploma Examination, April/May-2017

ELECTRICAL POWER GENERATION

Time : 3 Hours]

[Max. Marks : 100

- Note :** (i) Answer any **six** questions from Part-A. Each question carries **5** marks.
(ii) Answer any **seven** questions from Part-B. Each questions carries **10** marks.

PART - A

1. State the conventional and non-conventional sources of energy. **5**
2. List any 3 merits and 2 demerits of Thermal Power Plant. **5**
3. List the applications of Diesel Power Plant. **5**
4. Explain the meaning of water hammer and its effect. **5**
5. List the factors to be considered for selection of site nuclear power plant. **5**
6. Explain the term solar module and solar array. **5**
7. Classify the types of Tidal Power Plant. **5**
8. Draw the neat diagram of fixed dome type Biogas plant. **5**
9. List the causes of low power factor. **5**

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PART - B

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|-----|-----|--|-------|
| 1. | (a) | Explain with neat diagram of high head hydro electric plant. | 8 |
| | (b) | List any four factors to be considered for site selection of hydro plant. | 2 |
| 2. | (a) | Compare thermal and hydro power plant. | 4 |
| | (b) | Explain with neat diagram of Nuclear reactor. | 6 |
| 3. | (a) | Explain the neat diagram of gas turbine power plant. | 6 |
| | (b) | List the materials used in solar cells and write the types of photo voltaic power plant. | 2 + 2 |
| 4. | (a) | Write a neat diagram of thermal power plant. | 5 |
| | (b) | Explain the construction of photo voltaic cell. | 5 |
| 5. | (a) | Explain with block diagram of stand alone system. | 6 |
| | (b) | List the applications of solar photo voltaic plant. | 4 |
| 6. | (a) | Explain with neat diagram of horizontal axis wind turbine power plant. | 6 |
| | (b) | Define the term pitch angle and yane control. | 4 |
| 7. | (a) | List the merits and demerits of wind energy. | 5 |
| | (b) | Explain the importance of wind energy. | 5 |
| 8. | (a) | Explain the single basin system. | 5 |
| | (b) | List the merits and demerits of wave energy. | 5 |
| 9. | (a) | Write a neat diagram of open type OTEC plant. | 5 |
| | (b) | List the limiting factor and losses of fuel cell. | 5 |
| 10. | (a) | Explain with neat diagram of alkaline fuel cell. | 7 |
| | (b) | Explain the methods of improving power factor. | 3 |

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