

SE Electrical III EBSEGS

24.5.17
Q. P. Code : 542103

(3 Hours)

[Marks : 80]

- Note : (1) Question No 1 is compulsory
 (2) Solve any three out of remaining
 (3) Assume the suitable data required and mention the same

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| Q.1 | a) Explain load curve and load duration curve. | 05 |
| | b) What are different types of Hydro power plant? | 05 |
| | c) State advantages of Pumped storage plant. | 05 |
| | d) Explain nuclear fission and fusion. | 05 |
| Q.2 | a) Draw layout of Thermal power plant. | 10 |
| | b) Explain different types of tariffs. | 10 |
| Q.3 | a) Explain important factors governed for selection of site of Hydro power plant. Also state advantages and disadvantages of the plant | 10 |
| | b) Explain operation of Diesel power plant with layout. | 10 |
| Q.4 | a) Explain effects of fluctuating load on operation of power plant.
Also describe methods of meeting fluctuating load. | 10 |
| | b) Explain advantages and disadvantages of Gas power plant. | 10 |
| Q.5 | a) Explain operation of Vertical axis and Horizontal axis wind turbine. | 10 |
| | b) Describe operation of Solar pond with layout. | 10 |
| Q.6 | a) Explain operation of Solar PV cell. Describe method of manufacturing mono-crystalline and polycrystalline PV cells. | 10 |
| | b) Explain operation of PWR nuclear reactor. State its advantages and disadvantages. | 10 |
