Total No. of Questions : 8]

SEAT No. :

P1001

[Total No. of Pages : 2

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S.E. (Electrical) (Semester - I)
POWER GENERATION TECHNOLOGY
(2012 Course)

Time : 2 Hours] *[Max. Marks : 50*

Instructions to the candidates :

1) ***Neat diagrams must be drawn wherever necessary.***
2) ***Your answers will be valued as a whole.***
3) ***Assume suitable data, if necessary.***

Q1) a) Explain working of super heater used in thermal power plant with the help of neat circuit diagram. **[6]**

b) Explain working of pressurized water reactor with neat sketch. **[7]**

OR

Q2) a) Write short note on "Feed Water Treatment" for thermal power plant. **[7]**

b) Enlist main components of diesel engine power plant and state application of diesel power plant. **[6]**

Q3) a) Explain the working of Francis turbine with neat diagram. **[6]**

b) Explain grid connected wind energy conversion system with the help of neat diagram. **[6]**

OR

Q4) a) Write short note on spillways and penstocks used in hydro power plant. **[6]**

b) Why wind energy is preferred? Write advantages and disadvantages of wind energy. **[6]**

Q5) a) Explain solar cell, module, panel and array with diagram. **[6]**

b) Explain impact of temperature and insolation on I-V characteristic of solar PV cell. **[7]**

OR

Q6) a) Explain performance curve of PV cell with the help of I-V curves. **[7]**

b) Compare flat type solar collector with concentric solar collector. **[6]**

P.T.O.

Q7) Write short note on : **[12]**

a) Mini and Micro hydel power plant.

b) Geothermal power plant.

OR

Q8) Write short note on : **[12]**

a) MHD power plant.

b) Biomass power plant.

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