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Roll No

EE-602 (GS)

B.E. VI Semester

Examination, December 2017

Grading System (GS)

Electrical Power Generation

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

What is wind energy? What are various types of wind mills? Explain.

What are non-conventional sources of energy? Describe various types of solar collectors.

Describe an open cycle and closed cycle MHD power generation.

b) How can solar energy converted into electrical energy?

What are the function of moderator and control rods in a nuclear reactor?

b) Give the advantages and disadvantages of a gas turbine power plant.

Draw a neat sketch of a Thermal power plant and explain its functions?

What is a hydrograph and how is a flow duration curve prepared?

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Discuss various types of tariffs used for charging the consumers of electric energy.

Differentiate between fixed and operating costs of power plants. List the items which constitute the fixed and operating costs.

Discuss the problems of nuclear waste disposal.

Derive the expression for power factor improvement in the case of constant kW load.

Discuss automatic load dispatching in modern power system.

What are the necessary conditions under which power is transmitted through an interconnected two power stations?

Write short notes on any two of the following: 7 each

Cogeneration with topping cycle.

Geothermal power generation.

Short-term hydro-thermal coordination.

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