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10EE761

Seventh Semester B.E. Degree Examination, June/July 2018
Power System Planning

Time: 3 hrs.

Max. Marks:100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

PART – A

- 1 a. Briefly explain the points to be explored for power system planning. (08 Marks)
b. Write a note on Detailed Project Report. (06 Marks)
c. Discuss in brief the Indian Electricity Rules 1956. (06 Marks)
- 2 a. Briefly explain the desirable options for national action plan. (10 Marks)
b. Define power pooling and mention its advantages and constraints. (07 Marks)
c. What do you understand by power trading? Briefly explain. (03 Marks)
- 3 a. What are the components of rural electrification planning? Briefly explain. (08 Marks)
b. Explain the broad options available for funding by various financial institutions. (12 Marks)
- 4 a. Define algorithm used in computer aided planning. (02 Marks)
b. Briefly explain the important features of algorithm. (06 Marks)
c. What is green house effect? And explain how green houses work. (04 Marks)
d. What are the green house gases? Briefly explain. (08 Marks)

PART – B

- 5 a. Explain the concept of load prediction using regression analysis. (10 Marks)
b. Explain the important aspects of online power flow studies. (10 Marks)
- 6 a. Write a note on computerized management. (08 Marks)
b. Define and explain with schematic diagram the power system simulator. (12 Marks)
- 7 a. Develop an IGA (Improved Generic Algorithm) and its application to least cost generation expansion planning. (12 Marks)
b. What are the constraints observed during optimization process of power system expansion planning? (08 Marks)
- 8 a. Explain the generation expansion planning strategies on power system. (12 Marks)
b. Write note on optimization techniques. (08 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross-lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.