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M.Tech.(Power System) (2013 Batch) (Sem.-3) POWER SYSTEM PLANNING Subject Code : MTPS-302B M.Code : 72139

Time : 3 Hrs.

Max. Marks: 100

INSTRUCTION TO CANDIDATES :

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- Ql. (a) How reliability and capacity planning are linked?
 - (b) What are importances of resource planning?
 - (c) What are key indices of power system reliability?
 - (d) What are major factors in cost analysis of generation system?
- Q2. What are components of generating system capacity planning? Highlight them with suitable example for each one.
- Q3. What are the methods involved in formulation of least cost optimization problems involving capital for power system planning? Justify with suitable example.
- Q4. Explain the trends and economic projection method used in forecasting in detail. Also, give example of each one.
- Q5. Write down the important factors involved in evaluating the multi area reliability of an interconnected system. Explain them with example.
- Q6. Discuss various investment planning models in power system planning .Also compare them with each other.
- Q7. Two turbo-alternators rated for 110MW and 210MW have governor drop characteristics of 5% from no load to full load .They are connected in parallel to share a load of 250MW. Determine the load shared by each machine assuming free governor action.
- Q8. Write short notes on :
 - (a) Power supply availability assessment
 - (b) Role of consumption pattern in planning
 - (c) Objectives of power planning
 - (d) Production Cost simulation

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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