



Seventh Semester B.E. Degree Examination, Jan./Feb.2021  
**Power System Planning**

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

**Module-1**

- 1 a. Explain the planning principles. (10 Marks)  
b. Explain system load. (10 Marks)

OR

- 2 a. Explain integrated resources planning. (10 Marks)  
b. Explain unloading of a system. (10 Marks)

**Module-2**

- 3 a. Explain Techno-Economic viability. (10 Marks)  
b. Explain generation capacity and energy. (10 Marks)

OR

- 4 a. Explain financial analysis. (10 Marks)  
b. Explain clean coal technologies. (10 Marks)

**Module-3**

- 5 a. Explain distributed power generation. (10 Marks)  
b. Explain transmission planning criteria. (10 Marks)

OR

- 6 a. Explain steam turbine rehabilitation. (10 Marks)  
b. Explain network-studies. (10 Marks)

**Module-4**

- 7 a. Explain distribution deregulation. (10 Marks)  
b. Explain system reliability. (10 Marks)

OR

- 8 a. Explain electricity-supply rules, as per Electricity Act 2003. (10 Marks)  
b. Explain reliability evaluation. (10 Marks)

**Module-5**

- 9 a. Explain demand response. (10 Marks)  
b. Explain the principles for the electricity market. (10 Marks)

OR

- 10 a. Explain energy efficiency. (10 Marks)  
b. Explain retail market of power market. (10 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.

