

BENGAL ENGINEERING AND SCIENCE UNIVERSITY, SHIBPUR

M.E. (Electrical) 2nd Semester Examination 2012

Power System Planning

(EE 1020)

Time : 3 Hrs.

Full Marks : 100

Attend any five questions.

1. Classify power system planning activities with reference to different time horizons. Mention different activities which influences power system planning activities .What are the restrictions imposed on electrical power industries?
(5 +7+8)
2. State the importance of Load Forecasting. State relation between Peak Demand and weather condition. State the difference between Loss of Load Expectation (LOLE) and Expected Power Not Served (ENS)
(6 + 6 +8)0
3. State the framework of Mixed Economy. State the planning process in a Mixed Economy System. State the distortions in such planning process.
(6+8+6)
4. State the Industrial policy resolution of Govt. of India. State the status of Power industries before and after Electricity Act 2003. Why is Electricity Regulatory Commission formed?
(8 + 8 + 4)
5. State the reasons of restructure of electricity sector. How Electricity Act 2003 charges the structure of electricity sector.
(8 + 12)
6. Define BASE LOAD, MID RANGE, PEAK LOAD plants .Explain the capacity Resource Planning. Give the flow chart.
(6+6 + 8)
7. Explain the transmission planning activities. What is ROW? State the importance of Transmission Corridor selection.
(10+3+7)
8. Explain cost evaluation techniques followed in generation planning. Draw the flow chart of this planning approach.
(12+8)
9. What are steps to be followed for connection of Green-Energy Generation to Power System. (20)