
VTU QUESTION BANK**UNIT 1**

1. Explain Lease Cost Planning with flowchart. [Dec 2013/Jan 2014]
2. Describe the two techniques of load forecasting in power system. [Dec 2013/Jan 2014]
3. Discuss the different planning tools. [Dec 2013/Jan 2014]

UNIT 2&3

1. With the help of block diagram, explain distributed power generation planning. List plan options, uncertainties and attributes. [Dec 2013/Jan 2014]
2. What is co-generation? Describe the two techniques of cogeneration. [Dec 2013/Jan 2014]
3. Write a note on distribution planning. [Dec 2013/Jan 2014]
4. Discuss in brief rational tariff. [Dec 2013/Jan 2014]
5. What is the need for private participation in generation planning? How can it improve the power situation in India? [Dec 2013/Jan 2014]

UNIT 4

1. Discuss wheeling in power system and list the typical objectives in wheeling. [Dec 2013/Jan 2014]
2. Explain the effect of power generation on environment. [Dec 2013/Jan 2014]
3. What are the source of absorption and generation of reactive power in transmission and distribution lines? Compare advantages and disadvantages of any 4 compensating equipments. [Dec 2013/Jan 2014]

UNIT 5&6

1. Define system reliability and explain reliability planning criteria. [Dec 2013/Jan 2014]
2. Explain in brief the following real time operations: [Dec 2013/Jan 2014]
 - a. State estimation.
 - b. AGC
 - c. Economic load dispatch
 - d. Stability.

3. With the help of schematic diagram, explain load management technique.
[Dec 2013/Jan 2014]
4. Explain reactive power balance in power system
[Dec 2013/Jan 2014]
5. With the help of block diagram, explain computerized management of power system.
[Dec 2013/Jan 2014]

UNIT 7&8

1. Develop mathematical objective function of power system expansion planning.
[Dec 2013/Jan 2014]
2. What are the constraints observed during optimization process of power system expansion planning?
[Dec 2013/Jan 2014]
3. Explain least cost optimization problem.
[Dec 2013/Jan 2014]
4. Explain in brief two optimization techniques.
[Dec 2013/Jan 2014]