

QUESTION BANK OF GENERATION, TRANSMISSION AND DISTRIBUTION

2 MARKS QUESTION

1. Define corona.
2. How to reduce corona?
3. What is critical disruptive voltage?
4. What is insulator? Name a few.
5. Define sag.
6. What is voltage regulation?
7. Define transmission efficiency.
8. Define feeder and distributor.
9. Define power factor.
10. Write two benefits of improving power factor.
11. Define demand factor.
12. Define load factor.
13. What is load curve?
14. Differentiate between diversity factor and capacity factor.
15. Define base load and peak load.
16. Define tariff.
17. What are the objectives of electricity tariff?
18. Define substation.
19. What is CT?
20. What is PT?
21. Why step up transformer is used near generating station?
22. Why ACSR conductor are used in overhead transmission lines?
23. What are the demerits of low power factor?

5 MARKS QUESTION

1. Derive the formula for economical size of conductor.
2. What are the factors affecting corona?
3. Write down the types of conductor used in overhead lines.
4. List down the properties of insulating material.
5. Differentiate between suspension and strain insulator.
6. Name the factors causing Sag in transmission line.
7. Derive the formula for sag when supports are at equal levels.
8. Classify and describe the overhead lines based on distance.
9. Explain the effects of power factor in voltage regulation.
10. Explain different connection schemes of distribution system.
11. What are the advantages and disadvantages of EHVAC transmission system?
12. Explain the construction of cable.
13. List down the properties of insulating material.
14. What are the cause of low power factor?
15. List down the characteristics of electricity tariff.
16. Draw the layout of LT substation and write its important parts.

10 MARKS QUESTION

1. Explain different parts of hydel power plant with schematic diagram.
2. Describe the working principle of nuclear power plant with diagram.
3. Explain different parts of thermal power plant along with diagram.
4. What are the types of insulator? Explain in details.
5. Write down the merits and demerits of HVDC. List down all the important components.
6. Classify cable based on voltage level.
7. Explain different types of electricity tariff.
8. List down and describe types of substation.