

Apollo Institute of Engineering and Technology

Assignment/Question Bank

Branch: EE

Subject: Power System Planning and Design (2180903)

1. Explain SIL.
2. How the electrical design of the transmission lines is carried out? Discuss in detail.
3. What are sag templates?
4. Why transmission should be carried out at high voltages?
5. Derive the sag-tension relation in a T-line.
6. Explain radio and television interference.
7. Write a note on Corona.
8. Discuss the transmission and distribution planning in detail.
9. Explain the primary distribution design.
10. How the size of distributors is calculated?
11. Why transmission should be carried out at high voltages?
12. How generation planning is carried out?
13. Discuss distribution system planning.
14. Discuss the transmission and distribution planning in detail.
15. Discuss the various methods of voltage regulation
16. Explain the primary distribution design.
17. How the size of distributors is calculated?
18. What is lamp flicker? Discuss its types and remedies for the lamp flicker.
19. Write a note on selection of location for power plants.
20. What is interconnection? Write a short note.

21. Discuss distribution system planning.
22. How the size of the generation station is determined?
23. Discuss the transmission and distribution planning in detail.
24. Explain the design of Earthing grid.
25. What is step potential?
26. Discuss touch potential.
27. What is BIL? Discuss in detail.
28. Write a note on procedure to carry out insulation co-ordination.
29. Discuss various voltage ratings to be taken into account while selecting the lightning arrestors.
30. Discuss protective margin.
31. What are the financial aspects of the power system improvement scheme?
32. Discuss the power system improvement scheme in detail.
33. How generation planning is carried out?