



B.Tech IV Year I Semester Supplementary Examinations, July 2022
Electrical Distribution Systems
(EEE)

Maximum Marks: 70

Duration: 3 hours

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 What are the Factors effecting the Distribution system planning
- 2 Define Coincidence factor
- 3 Define Loss factor
- 4 Difference between Radial and loop types of primary feeders
- 5 List objectives of distribution system protection
- 6 What is the function of circuit breakers?
- 7 List the Coordination of Protective Devices
- 8 What is the function of series capacitors
- 9 What is the Importance of voltage control
- 10 What is the function of series capacitors

Part-B

Answer All the following questions.

(10M X 5=50Marks)

- 11 Derive relationship between the load factor and loss factor. [10]
OR
- 12 What are the factors effecting the feeder voltage level? [10]
- 13 Benefits derived through optimal location of substations. [10]
OR
- 14 Compare the four and six feeder patterns of substation service area. [10]
- 15 a) Write objectives of distribution system protection. [5]
b) Write the advantages and disadvantages of circuit breaker. [5]
OR
- 16 a) Explain Auto-Recloser to Fuse co-ordination [5]
b) Explain Fuse- Fuse co-ordination. [5]
- 17 Explain the procedure to determine the best location of capacitor. [10]
OR
- 18 Compare shunt and series capacitor schemes of compensation. [10]
- 19 Explain the line drop compensation on voltage control. [10]
OR
- 20 Explain the effect of AVR on voltage control. [10]