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Code No: 138BT

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, December - 2020

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ELECTRICAL DISTRIBUTION SYSTEMS

(Electrical and Electronics Engineering)

Time: 2 Hours

Max. Marks: 75

**Answer any Five Questions
All Questions Carry Equal Marks**

1. How loads are classified and modeled in distribution networks? Give the characteristics of different types of loads. [15]
2. Describe the types of primary feeders and discuss the merits and demerits of them. [15]
3. Derive the voltage drop and power loss calculations on non 3 phase line. [15]
4. Explain the deciding criteria for location of a substation and what are the advantages with optimal substation location. [15]
5. Explain the working principle and operation of circuit breaker. What is the effect of sectionalization on the rating of a circuit breaker. [15]
6. What are the common types of faults occur in electrical distribution systems? Explain the procedure for fault calculation. [15]
7. Compare and explain the role of shunt and series capacitors in p.f correction. [15]
8. How an AVB can control voltage? With the aid of suitable diagram explain its function. [15]

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