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B.Tech. 4th Semester (FT)
Examination, May-2016
ELECTRICAL FIRE SAFETY
Paper-FT-208 F

Time allowed : 3 hours] [Maximum marks : 100

Note : Question No. 1 is compulsory. Attempt one question from each unit.

1. (a) What are different types of fuses ? 5
- (b) What are the possible reasons for electric shock. 5
- (c) What are the hazards associated with electricity ? 5
- (d) What are the disadvantages of ungrounded neutral system. 5

Unit-I

2. (a) What are the precautions to be taken to ensure safety during installation of Generating plant and equipment. 10
- (b) Explain various types of Generating station. 10
3. Explain in detail the equipments and possible faults in generating stations. 20

Unit-II

4. Explain transmission lines and their equipments in detail. 20
5. Explain possible faults in transmission lines in detail. 20

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Unit-III

6. (a) What are the constructional differences of a core type and shell type transformer. 10
(b) What is Ring Main distributor ? Explain. 10
7. (a) Explain the various types of substations. 10
(b) Discuss the various faulty and safety measures associated with transformers. 10

Unit-IV

8. (a) Explain different classes of insulation with application. 10
(b) Explain various tests that are to be conducted on relays. 10
9. (a) With necessary diagrams explain the working of any one type of circuit breaker. 10
(b) Explain solid grounding and resistance grounding and hence compare their merits and demerits. 10