

24764

**B.Tech. (FT) 4th Semester (F. Scheme)**

**Examination, May-2015**

**ELECTRICAL FIRE SAFETY**

**Paper-FT-208**

*Time allowed : 3 hours]*

*[Maximum marks : 100*

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

1. (a) Enlist various types of generating system. 4
- (b) What is skin effect. 4
- (c) What is Ring Main distributor. 4
- (d) What are different types of fuses. 4
- (e) What are the possible reasons for electric shock. 4

**Unit-I**

2. Explain in detail the various equipments used in generating stations. 20
3. Explain in detail the possible faults and safety measures adopted in generating stations. 20

**Unit-II**

4. Explain in detail the various equipments used in transmission lines. 20
5. Explain in detail the various possible faults and safety measures adopted in transmission lines. 20

**Unit-III**

6. (a) Discuss the working principle and applications of transformer. 10  
(b) Explain various types of substations. 10
7. (a) Explain stepped or tapered distributor. 10  
(b) Explain DC distributor fed at both ends. 10

**Unit-IV**

8. (a) Explain in detail, the working principle of Air Blast Circuit Breaker. 10  
(b) Briefly explain the criteria for the selection of fuse. 10
9. (a) What are the disadvantages of ungrounded neutral system ? Explain how this can be overcome by solid grounding. 10  
(b) Explain various tests that are to be conducted on relays. 10