Code: 19ES5501B

III B.Tech - I Semester – Regular Examinations JANUARY 2022

ELECTRICAL SAFETY (COMMON TO EEE, ME & ECE)

Duration: 3 hours Max. Marks: 70

Note: 1. This question paper contains two Parts A and B.

- 2. Part-A contains 5 short answer questions. Each Question carries 2 Marks.
- 3. Part-B contains 5 essay questions with an internal choice from each unit. Each question carries 12 marks.
- 4. All parts of Question paper must be answered in one place

PART - A

- 1. a) What do you mean by primary shock.
 - b) Explain standby generating set.
 - c) Explain the safety precautions in electrical equipment installation.
 - d) What are hazardous zones in residential area.
 - e) Explain importance of fire extinguishers.

PART - B

UNIT - I

2. Write a brief note on human factors in electrical safety

12 M

OR

3. Define Electric shock and explain medical analysis for the 12 M electric shock.

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<u>UNIT</u> – II

Write a note on Do's and Don'ts for safety in the use of 12 M 4. domestic electrical appliances. OR 5. Discuss the safety requirement for agricultural 12 M installations. **UNIT-III** Explain Safety tags locks and locking devices. 6. 12 M OR Write short notes on safety Audit. 7. 12 M <u>UNIT – IV</u> 8. Write short notes on 12 M i) Hazards in electricity. ii) Protective clothing. iii) Head and eye protection. OR Discuss about classification of equipment/enclosure for 9. 12 M hazardous locations. UNIT - V10. What are $C0_2$ and Halogen gas schemes in safety. 12 M OR 11. Illustrate the necessity of fire extinguishing system in 12 M work area.

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