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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)**

B.Tech II Year I Semester Supplementary Examinations August-2021

ELECTRICAL & MECHANICAL TECHNOLOGY

(Civil Engineering)

Time: 3 hours

Max. Marks: 60

(Answer all Six Units 6 X 10 = 60 Marks)

PART-A**UNIT-I**

- 1 Explain the construction and working principle of repulsion type Moving iron instruments. **10M**

OR

- 2 What are the essential operating forces required in an instrument? Explain detail. **10M**

UNIT-II

- 3 With relevant diagrams, explain in detail about various types of fuses used in electrical wiring system. **10M**

OR

- 4 State and explain the Laws of Illumination **10M**

UNIT-III

- 5 Discuss in detail about the Indian electricity rules to be considered or domestic wiring system. **10M**

OR

- 6 Describe the general calculations to be made for domestic wiring installations. **10M**

PART-B**UNIT-IV**

- 7 Differentiate two stroke and four stroke engine. **10M**

OR

- 8 Explain working of summer air conditioning system with neat sketch. **10M**

UNIT-V

- 9 Explain Conveyers and Excavators with neat sketch. **10M**

OR

- 10 Explain Fast and loose pulley drive with neat sketch. **10M**

UNIT-VI

- 11 Explain working of Oxy-acetylene welding process with neat sketch. **10M**

OR

- 12 Differentiate between soldering, Brazing, and Welding. **10M**

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