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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech II Year I Semester Supplementary Examinations Nov/Dec 2019
ELECTRICAL & MECHANICAL TECHNOLOGY
(CE)**

Time: 3 hours

Max. Marks: 60

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

**PART-A
(ELECTRICAL TECHNOLOGY)**

UNIT-I

- 1 Explain the construction and working principle of PMMC type instruments. 12M
- OR**

- 2 Explain the various type errors occurred in a measuring instrument. 12M

UNIT-II

- 3 With relevant diagrams, explain in detail about various types of fuses used in Electrical wiring system. 12M

OR

- 4 What do you mean by MCB? List out the different types of MCBs used in electrical wiring system. How is it used for protection against over load and short Circuit faults? 12M

UNIT-III

- 5 What are the steps to be followed for estimation of power load installations? Explain in detail. 12M

OR

- 6 Describe the general calculations to be made for domestic wiring installations 12M

**PART-B
(MECHANICAL TECHNOLOGY)**

UNIT-IV

- 7 What are the various classifications of air compressors? Explain Centrifugal and Axial flow compressor with neat sketch 12M

OR

- 8 Explain Window AC and Split AC with neat sketch. 12M

UNIT-V

- 9 What are the types of flat belt drives? Explain about open belt and cross belt drives? 12M

OR

- 10 Explain Quarter turn belt drive and belt drive with idler pulley with neat sketch. 12M

UNIT-VI

- 11 Explain working of Oxy- Acetylene Welding process with neat sketch. 12M

OR

- 12 Differentiate between TIG and MIG welding 12M

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