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

B.Tech II Year I Semester Supplementary Examinations Feb-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 various type errors occurred in a measuring instrument. 10M

OR

2 a State and explain Kirchoffs current law. 5M

b State and explain Kirchoffs voltage law. 5M

UNIT-II

3 Discuss the various types of wiring accessories used in electrical wiring system 10M

OR

4 a Write short notes on Battern wiring 5M

b Write short notes on PVC conduit wiring system 5M

UNIT-III

5 Explain how can you estimate the installation cost of electrical wiring system? 10M

OR

6 What are the various points to be considered for testing and inspection of electrical domestic wiring system? Explain. 10M

PART-B

UNIT-IV

7 Explain Rotary compressors with neat sketch. 10M

OR

8 Explain working of winter air conditioning system with neat sketch 5M

UNIT-V

9 Explain the Rope drive, Chain drive, Gear drive with neat sketch. 10M

OR

10 Explain stepped and cone pulley drive with neat sketch. 10M

UNIT-VI

11 Explain working of Submerged arc Welding process with neat sketch 10M

OR

12 Differentiate between TIG and MIG welding 10M

*** END ***