

NETTUR TECHNICAL TRAINING FOUNDATION
DIPLOMA IN TOOL ENGINEERING & DIGITAL MANUFACTURING – CP01
II SEMESTER REGULAR & SUPPLEMENTARY EXAMINATION-JULY 2023

Subject: Basic Electrical & Electronics

Subject Code: CP01209T

Total Time: 2 Hr.

Total Marks: 50

PART B

1.0 ANSWER ANY EIGHT OF THE FOLLOWING

2*8=16

- 1.1 List out the Electrical hand tools
- 1.2 What is meant by semiconductor?
- 1.3 What are the insulating materials used in Wires and Cables?
- 1.4 What is mean by Peak Inverse Voltage (PIV)?
- 1.5 What are the Parameters can be measure using CRO?
- 1.6 Write the applications of MCB
- 1.7 What is mean by potential difference?
- 1.8 Give some examples of Display devices
- 1.9 What is mean by sensor?
- 1.10 Write the working principle of transformer.

2.0 ANSWER ANY SIX OF THE FOLLOWING

3*6=18

- 2.1 What are the causes of Electrical accidents?
- 2.2 What are the types of Electronics Components? Explain with example
- 2.3 What is mean by CRO?
- 2.4 State Ohms Law
- 2.5 Write short notes on Fuse
- 2.6 What are the applications of LED?
- 2.7 Write short notes on Proximity Sensor
- 2.8 Why the transformers are rated in KVA?

3.0 ANSWER ANY FOUR OF THE FOLLOWING

4*4=16

- 3.1 Write short notes on Series resistance & Parallel resistance circuit
- 3.2 Explain Kirchhoff's current law & Voltage law
- 3.3 How to control the Speed of the Induction motor?
- 3.4 What are the constructional parts of DC machine?
- 3.5 What are the types of Transformer?
- 3.6 What are the Electrical safety related Hazards?

