

2207E060

DIPLOMA OF VOCATION
Industrial Electronics
Subject: Electronics Instruments and Measurements
Subject Code: EDIM-204
Semester: Fourth
July 2022
Theory (External): 35 Marks
Time: 03 Hours

Instructions to the Students

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 1 mark.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 5 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything on the question paper.
6. Wherever necessary, the diagram drawn should be neat and properly labelled

Roll Number									

SECTION –A (SHORT/OBJECTIVE TYPE QUESTIONS)
(10x1=10 Marks)

Explain in brief the following:

- A. What is measurement?
- B. Define Instrument.
- C. What is the difference between precision and accuracy?
- D. Define Q factor.
- E. Define Time period.
- F. Which type of instruments are more susceptible to noises?
- G. Write any three n-type semiconductors.
- H. What is the principle behind CRT's working?
- I. Differentiate between dual trace and dual beam CRO.
- J. How to prevent the loading of a circuit under test when a CRO is used?

SECTION –B (ESSAY TYPE QUESTIONS)
(5x5=25 Marks)

1. Write importance of standards and calibrations.
2. What are the specifications of and instruments?
3. Explain the principle of measurement of DC Voltages.
4. Explain the construction and working of PMMC.
5. Explain the working of DSO.
6. Explain the working of Anderson Bridge.
7. Explain the working of dual slope type voltmeter.
8. What are the applications of digital multi-meter?

==END OF PAPER==