

DIPLOMA OF VOCATION
Industrial Electronics
Subject: Statistical Process Control
Subject Code: ZDGE-202
Semester: Fourth
July 2022
Theory (External): 70 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 2 marks.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 10 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)
(10x2=20 Marks)

- (A) Define Statistical Process Control.
- (B) What part probability play in Statistical Process Control.
- (C) What is the use of flow charts?
- (D) Control charts can be used very effectively in the process of hypothesis testing? True or False
- (E) What is Subgroup frequency?
- (F) What specific method in manufacturing is used to monitor variation?
- (G) Which type of variables can be considered in SPC?
- (H) Which chart is used to record the number of defective units in a sample?
- (I) How do you Solve P-Chart?
- (J) Which type of decision can be made using histogram?

SECTION –B (ESSAY TYPE QUESTIONS)
(5x10=50 Marks)

- Q1 What are the techniques for Process Control?
- Q2 What are the different tools of Process control? explain
- Q3 Explain master cause analysis table with example.
- Q4 What is the methodology to identify assignable causes?
- Q5 Explain reaction plan.
- Q6 What are the methods available to interpret the process capability?
- Q7 Explain C-Chart with any example.
- Q8 Explain X-R chart with any example.

==END OF PAPER==