

DIPLOMA OF VOCATION
Mechanical Manufacturing
Subject: Inspection & Quality Control
Subject Code: IMS-302
Semester: First
January 2021
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)

- A. Define Quality Assurance and its significance.
- B. What are the basic purposes of Quality Control?
- C. What are Calipers and Dial Indicators. Discuss their applications
- D. What is Normal Distribution? Discuss its implication in SQC.
- E. Elaborate the format used for Inspection Plan and test reports.
- F. What are histograms and why they are used?
- G. Define Sampling Plan. How it is framed?
- H. Differentiate between Preventive and Operative Inspection.
- I. What is the objective behind using Mean control charts?
- J. Mention the applications of thread gauges.



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

1. Describe various units and standards of measurement.
2. Throw light on major principles which are usually considered while measurement and gauging.
3. Discuss some of the widely used measurement instruments. Also mention their merits and demerits
4. What is Gauge? Differentiate between Limit Gauge and Wire Gauge. Also highlight their key applications.
5. Define Control Charts. Discuss their types and their application areas.
6. What is Sampling? Elaborate various methods of taking samples.
7. Explain certain frequently used statistical techniques for assessment and control of quality.
8. Compare different types of inspection, discuss their suitability, merits and demerits.

==END OF PAPER==