

No. of Printed Pages : 4
Roll No.

221763

**6 th Sem. / Mechanical Engineering, Mech
(Tool & Die Design)**

Subject : Metrology and Quality Control

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 A Sine bar is used for (Co2)
a) linear measurement b) Angular measurement
c) Both a & b d) None of the above
- Q.2 A ring gauge is used to check (CO2)
a) Diameter of holes b) diameter of shaft
c) Both a & b d) None of the above
- Q.3 Which of the following is a Control Chart for attributes? (CO4)
a) X-Chart b) R-Chart
c) P-Chart d) All of the above

(1)

221763

- Q.4 Normal Distribution is also known as (CO4)
a) Poisson Distribution b) Gaussian Distribution
c) Binomial Distribution d) None of the above
- Q.5 What is the full form of ISO? (CO5)
a) International Standard organization
b) International Society for organization
c) International Organization for Standardization
d) International System of operation
- Q.6 LVDT is a (CO6)
a) Resistive Transducer
b) Inductive Transducer
c) Capacitive Transducer
d) None of the above

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Define Inspection (CO1)
- Q.8 What are slip gauges (CO2)

(2)

221763

- Q.9 What are thread gauges (CO2)
- Q.10 Write the formula for calculating sample size.(CO4)
- Q.11 Define quality (CO5)
- Q.12 Write the full form of LVDT (CO6)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Explain W⁵H principle. (CO1)
- Q.14 Write short note on Wavelength Standard. (CO1)
- Q.15 Write short note on Clinometer. (CO2)
- Q.16 Explain Snap Gauge & thread Gauge with neat sketch. (CO2)
- Q.17 Write the Effects of Errors on the Quality . (CO3)
- Q.18 Explain Histogram with the help of neat sketch. (CO4)
- Q.19 Explain Acceptance Sampling. (CO5)
- Q.20 Write the functions of ISO 9000. (CO5)
- Q.21 Define transducer. Name any four types of transducers. (CO6)

(3)

221763

- Q.22 Write short note on KAIZEN. (CO5)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Explain Construction & Working of Profile Projector with neat sketch. (CO2)
- Q.24 Explain the measurement of pressure with the help of transducer (CO6)
- Q.25 Explain the followings (CO5)
- 5 S
 - Quality Circles

(4120)

(4)

221763