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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

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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)

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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)

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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)

a) 5 S

b) Quality Circles

(4120)

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