

- Q.24 What are effects of errors on the quality?
- Q.25 Write a short note on Auto collimator.
- Q.26 Name the various instruments used in alignment test.
- Q.27 What are the benefits of statistical quality control?
- Q.28 Write the advantages of control charts.
- Q.29 What are characteristics of multiple sampling plans?
- Q.30 Explain the frequency polygon.
- Q.31 List the techniques for TQM.
- Q.32 Write the functions of ISO 9000.
- Q.33 What is 5S?
- Q.34 Write the advantages of LVDT.
- Q.35 Explain R- Chart.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain depth gauge micrometer with the help of neat sketch
- Q.37 Explain the principle, construction and working of pneumatic comparator.
- Q.38 Define the transducer. Explain its different types.

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6th Sem / Mech. Engg. (MSIL) Subject:- Inspection and quality Control

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 A rule is an _____ standard.
a) End b) Line
c) Master d) Workshop
- Q.2 Interchangeability _____ costs.
a) Increases b) Decreases
c) Do not affect d) None of these
- Q.3 The more nearly accurate measuring instrument from the following is _____.
a) Ruler b) Vernier
c) Micrometer d) None of these
- Q.4 Surface plates are provided _____ point support.
a) 2 b) 3
c) 4 d) 5

Q.5 It is preferable to use a sine bar for measuring angles.

- a) Up to 45° b) up to 10°
- c) More than 45° d) up to 90°

Q.6 Sigma comparator is _____ comparator.

- a) Mechanical b) Electrical
- c) Optical d) Electronic

Q.7 Electronic instrument for measurement of surface texture is _____.

- a) Auto collimator b) Talysurf
- c) Optical flat d) DTI

Q.8 The minimum LCL on R-chart is.

- a) 1 b) 0
- c) 0.5 d) 2

Q.9 Which of the following is measured by tachometer?

- a) Linear displacement
- b) Acceleration
- c) Amplitude of vibration
- d) Angular velocity

Q.10 An ISO certificate does mention.

- a) Scope of service b) Time validity
- c) ISO standard number d) All of these

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 A vernier caliper is line measuring instrument (True/False)

Q.12 ANSI stands for _____.

Q.13 What is meant by precision of the measuring instrument?

Q.14 Electrical comparator does not have many moving parts (True/False).

Q.15 If thread angle is 20° , then flank angle of the thread is ____.

Q.16 What is value of one micron?

Q.17 State the use of spirit level in machine tool alignment test.

Q.18 The normal curve is _____ about the mean.

Q.19 Controlling the variability is an essential aspect of maintaining quality. (True/False)

Q.20 What is kaizen?

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Define the basic methods of measurements.

Q.22 Name the various instruments used for plane surface measurement.

Q.23 Write a short note on Sine bar.