

- Q.22 What is inspection? Give the objective and functions of inspection.
- Q.23 Write a short on types of inspection.
- Q.24 What is the use of calipers? Name the various types of calipers.
- Q.25 Write a short note on wire gauge.
- Q.26 Explain surface plate with the help of neat sketch.
- Q.27 Explain gauge tolerance.
- Q.28 Explain the procedure of alignment test on lathe.
- Q.29 what is normal distribution? Explain.
- Q.30 Write the characteristics of double sampling plan.
- Q.31 Explain TQM. What is its necessity?
- Q.32 Write the advantages of QC tools.
- Q.33 Explain national and international codes.
- Q.34 What is 5S? Explain
- Q.35 How is displacement measured by LVDT? Explain.

Section-D

- Note:** Long answer questions. Attempt any two question out of three Questions. (2x10=20)
- Q.36 What is vernier caliper? Explain construction and working of a vernier caliper with diagram.
- Q.37 Explain normal, poisson and binomial distributions in detail.
- Q.38 What is ISO-9000? Explain the main functions, characteristics and benefits of ISO-9000.

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MSIL-121762/31762

6th Sem./ Mech. Engg. (MSIL) Sub : Inspection & Quality Control

Time : 3 Hrs.

M.M. : 100

SECTION-A

- Note:** Multiple Choice Questions. All Questions are compulsory. (10x1=10)
- Q.1 What is the error in a reproduction of wavelength standard?
- 1 part in 100 million
 - 2 part in 50 million
 - 2 parts in 50 million
 - 1 part in 50 million
- Q.2 Which of the following option involves material and component control?
- Development of standards
 - Development of specification
 - Quality control
 - Feedback
- Q.3 What is the first step of QA?
- Development of standards
 - Identification of customer need
 - Servicing
 - Material control
- Q.4 What of the following option correctly define a solid gauge?

- a) Gauging portion and handle separately manufactured
 - b) Gauge integral with the handle
 - c) Gauges with suitable locking devices
 - d) Gauges that are not used for cylindrical holes
- Q.5 Which of the following is a principle of TQM?
- a) Product-centered system
 - b) Customer-focus
 - c) Intermittent improvement
 - d) Decision made by top executive only
- Q.6 Quantities that can be numerically measured, can be plotted on a _____ control chart.
- a) X Bar b) P Chart
 - c) C chart d) np Chart
- Q.7 Choose the incorrect statement related to quality improvement
- A) Reduces rework
 - b) Leads to greater uniformity of product
 - c) Increases output with lowered cost
 - d) Increases machine time
- Q.8 What is TQM?
- a) Total Quality Management
 - b) Total Quality Maintenance
 - c) Total Quality Mitigation
 - d) Total Quality Managers
- Q.9 Self generating transducers are _____ transducers
- a) Passive b) Inverse

- c) Secondary d) Active
- Q.10 An LVDT has an output in the form of
- a) Rotary movement of core
 - b) Linear movement of core
 - c) Pulse
 - d) None of the above

Section-B

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

- Q.11 Define inspection.
- Q.12 Define quality.
- Q.13 Define measurement.
- Q.14 What is the use of clinometers?
- Q.15 What are the different types of sampling plans?
- Q.16 Define median.
- Q.17 Write the full form of ISO.
- Q.18 What is 5S?
- Q.19 Define inverse transducer.
- Q.20 Define transducer sensitivity.

Section-C

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

- Q.21 Explain planning of inspection.