

No. of Printed Pages : 4

181762/171762/121762/

Roll No.....

31762/84532/31846/105355

6th Sem,

Branch : Mechanical Engg.

Subject : Inspection and Quality Control

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

Q.1 Ring gauge is used for measurement _____.(CO-02)

- a) Outer diameter
- b) Inner diameter
- c) angle measurement
- d) Length of shaft

Q.2 The totally of items under consideration is known as _____.(CO-05)

- a) Sample
- b) Lot size
- c) Mean
- d) Lot

Q.3 Which of the following is one of the 55 pillars.

- a) Structure
- b) Survive (CO6)
- c) Standardise
- d) Shift

Q.4 _____ the most common value in the group repeating largest number of times. (CO-4)

- a) Mode
- b) Median
- c) Mean
- d) Range

Q.5 Self generating transducers are (CO-7)

- a) Active
- b) Pulse
- c) Digital
- d) Analog

(1) 181762/171762/121762/
31762/84532/31846/105355

Q.6 An X bar chart use the following data (CO-4)

- a) Count date
- b) Attribute measurement data
- c) Variable measurement data
- d) None of the above

Q.7 _____ is not a fundamental quantity. (CO-1)

- a) Mass
- b) Velocity
- c) Length
- d) Time

Q.8 In F.P.S. system of unit, the mass is measured in _____.(CO-1)

- a) Gram
- b) Pound
- c) Kg
- d) Tonne

Q.9 Which instrument is designed on principle of screw and nut. (CO-2)

- a) Height gauge
- b) Micrometer
- c) Vernier calliper
- d) Depth gauge

Q.10 TQM focuses on (1) Supplier (2) Employee (3) Customer. The Correct answer is _____.(CO-02)

- a) 1 and 3 only
- b) 3 only
- c) 2 and 3 only
- d) 1, 2 and 3 only

Section B

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

Q.11 Define 5S? (CO-6)

Q.12 Define control charts. (CO-4)

Q.13 Define comparator. (CO-3)

(2) 181762/171762/121762/
31762/84532/31846/105355

- Q.14 Give any two examples of control charts for attributes. (CO-5)
 Q.15 Give mathematical formula for mean deviation. (CO-4)
 Q.16 Explain briefly the working of dial gauge. (CO-7)
 Q.17 Define interchangeability. (CO-1)
 Q.18 What for an autocollimator is used? (CO-3)
 Q.19 What is passive transducer? (CO-7)
 Q.20 Define TQM. (CO-6)

Section-C

- Note:** Short answer type Questions. Attempt any twelve Questions out of fifteen Questions. (12x5=60)
- Q.21 Enlist any five alignment tests carried on a drilling machine. (CO-3)
 Q.22 Why are electrical measuring instruments have more advantageous as compared to mechanical instruments? (CO-2)
 Q.23 Write five main objective of inspection (CO-1)
 Q.24 What are the Line standards and End Standards? How do they differ? (CO-1)
 Q.25 With the help of suitable sketch explain the following.
 a) Frequency Histogram
 b) A Bar chart
 Q.26 Write the characteristics of normal distribution curve? (CO-4)

(3) 181762/171762/121762/
31762/84532/31846/105355

- Q.27 Explain with neat sketches (i) Plug gauges (ii) Snap gauges. (CO-7)
 Q.28 Compare the X bar, R chart with P chart. (CO-4)
 Q.29 Explain with the neat sketch working of 'Sigma' comparator. (CO-3)
 Q.30 Calculate the mean deviation of 3, 6, 6, 7, 8, 11, 15 and 16. (CO-4)
 Q.31 Discuss single sampling plan. (CO-5)
 Q.32 Name the various quality control tools. Explain any one with suitable diagram. (CO-6)
 Q.33 Explain the construction of profile projector with diagram. (CO-2)
 Q.34 Write five main objective of inspection. (CO-1)
 Q.35 Describe with the help of a neat sketch, the working of an outside micrometer. (CO-2)

Section-D

- Note:** Long answer Questions. Attempt any two Questions out of three Questions. (2x10=20)
- Q.36 Write the short note on (CO-06)
 a) Potentiometer b) Sampling Plan
 Q.37 Name the various types of QC tools. Explain any four? (CO-6)
 Q.38 Explain LVDT in detail. Write its advantages and disadvantages. (CO-7)

(2480)

(4) 181762/171762/121762/
31762/84532/31846/105355