

SECTION-D

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

- Q.23 Write short note on: (CO1)
- a) Try Square
 - b) Steel ruler
- Q.24 Explain the concept of interchangeability. (CO3)
- Q.25 Explain the working of any one of the mechanical comparators with suitable diagram. (CO8)

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2nd Year / Advance Diploma in Tool and Die Making Subject : Engineering Metrology

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

- Q.1 Slip Gauges are _____ measuring standard. (CO1)
- a) end
 - b) line
 - c) light
 - d) angle
- Q.2 One inch _____ mm (CO2)
- a) 22.4
 - b) 23.4
 - c) 24.4
 - d) 25.4
- Q.3 The minimum diameter of 100 H 7 hole is _____ (CO3)
- a) 100 mm
 - b) 107 mm
 - c) 93 mm
 - d) 105 mm

Q.4 Gauges used for checking the holes are called (CO4)

- a) Planer Gauge b) Snap Gauge
- c) Plug Gauge d) Gap Gauge

Q.5 The angle of ACME thread is _____ degree (CO5)

- a) 39 b) 29
- c) 45 d) 60

Q.6 Full form of ISO is (CO7)

- a) Indian organization for standardization
- b) Indonesia organization for standardization
- c) International standards office
- d) International organization for standardization

SECTION-B

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

Q.7 Define Repeatability. (CO1)

Q.8 Define Flatness. (CO2)

Q.9 Define Go-gauge. (CO4)

Q.10 Define Bore Gauge (CO5)

Q.11 Define Calibration (CO6)

Q.12 Define Comparator (CO8)

SECTION-C

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

Q.13 Explain the working principle of Vernier Caliper with diagram. (CO1)

Q.14 Write any four effects of error on quality. (CO2)

Q.15 Explain various types of Fits with diagram. (CO3)

Q.16 Explain the principle of Taylor's for designing of Plain Limit Gauge. (CO4)

Q.17 Write the procedure for calibration. (CO4)

Q.18 Explain 2 & 3 wire method of measurement with suitable diagram. (CO5)

Q.19 Enlist various types of thread. Explain any one with diagram. (CO5)

Q.20 Explain dial gauge with neat diagram. (CO6)

Q.21 Explain the working of Profile Projector with neat diagram. (CO7)

Q.22 Write any four characteristics of comparator. (CO8)