

S.B. Roll No.....

METROLOGY AND INSTRUMENTATION
3rd Exam/Mech./4653/Jan'2022
(FOR BATCH 2018 ONWARDS)

Duration: 1.15Hrs.

M.Marks:25

SECTION-A

Q1. Attempt any three questions.

3x5=15

- i. Describe the uses of slip gauges.
- ii. Differentiate between comparators and measuring instrument.
- iii. Differentiate between precision and accuracy.
- iv. What are the benefits of standardisation?
- v. What are the limitations of sine bar in angle measurement?
- vi. Explain the concept of primary texture.
- vii. Discuss factors affecting surface finish.

SECTION-B

Q2. Attempt any one question.

1x10=10

- a. Give the terminology of surface roughness with construction and working.
- b. Explain briefly Piezo-electric Accelerometer.
- c. Explain standard organization briefly.
- d. What is sine bar? Explain the measurement of unknown angle.