

### SECTION-B

**Note:** Short answer type questions. Attempt any six questions out of eight questions. (6x5=30)

- Q.11 Explain the types of fits.
- Q.12 Explain the principles of electrical, measuring instruments and give their examples.
- Q.13 Write short note on mechanical comparators.
- Q.14 Explain various methods of measuring surface roughness.
- Q.15 What is the process of evaluation of surface finish RMS and CLS values.
- Q.16 Explain the working of viscometer.
- Q.17 Describe the construction of dial gauge.
- Q.18 Write a short note on various defects likely to occur in measuring instruments and their remedies.

### SECTION-C

**Note:** Long answer type questions. Attempt any one questions out of two questions. (1x10=10)

- Q.19 a) Write short note on ziers optotest  
b) Write short note on limit gauges.
- Q.20 Describe the construction and working of auto collimeter.

No. of Printed Pages : 2

Roll No. ....

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**Level 5 / 1st. Sem. / DVOC**

**Production Tech.**

**Subject : Metrology & Measuring Instruments**

Time : 2 Hrs.

M.M. : 50

### SECTION-A

**Note:** Very short answer type questions. All questions are compulsory (10x1=10)

- Q.1 Define precisions.
- Q.2 Write types of tolerances.
- Q.3 Describe refraction.
- Q.4 Write use of comparator.
- Q.5 Define the term error.
- Q.6 Define surface roughness.
- Q.7 Write use of viscometer.
- Q.8 Describe pyrometer.
- Q.9 Define flatness.
- Q.10 Write use dial gauge.