No. of Printed Pages : 2 188752
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1st Sem, Level 5 / DVOC (Production Tech.)
Subject :Metrology & Measuring Instruments

Time : 2 Hrs. M.M. : 50

SECTION-A

Note: Very short questions. Attempt all ten questions. (10x1=10)

Q.1 Define standards.

Q.2 What are limits?

Q.3 Define interchangability.

Q.4 What do you mean by RMS value of surface finish?

Q.5 Define parallelism error.

Q.6 Give the function of thermo couple.

Q.7 Give the function of stroboscope.

Q.8 What is the polarization principle?

Q.9 What is drafting symbol for surface finish?

Q.10 Give the function of prism.

SECTION-B

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

Q.11 Differentiate between primary and secondary standards with example.

Q.12 Write short note on types of fits and their applications.

Q.13 What are various sources of error in measurement and how they can be reduced?

Q.14 Explain the construction and working of cone viscometer.

Q.15 Explain the construction and working of strain gauges.

Q.16 Describe with diagram the relation between gauge pressure, vacuum, atmospheric and absolute pressure.

Q.17 Explain any one optical projector.

Q.18 Explain dial indicator and various uses of dial indicator.

SECTION-C

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

Q.19 Explain the principle, construction and working of Bourdan's tube pressure guage.

Q.20 Compare the vernier and screw and screw method of measurement.