No. of Printed Pages : 2 188752
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1st Sem. / Level-5/DVOC (Production Tech.)

Subject : Metrology and Measuring Instruments

Time : 2 Hrs. M.M. : 50

SECTION-A

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

Q.1 Define interchangeability.

Q.2 What is refraction?

Q.3 Tell any two flaws in surface finish.

Q.4 What is polarisation?

Q.5 Name an instrument for measuring atmospheric pressure.

Q.6 Define flatness.

Q.7 What is prime use of thermocouple?

Q.8 Name an instrument for measuring straightness.

Q.9 What is prime use of load cell?

Q.10 What is the general RMS value of surface finish produced by simple milling?

SECTION-B

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

Q.11 Explain the working of Two float viscometer.

Q.12 Explain the working of a simple Vernier Calliper.

Q.13 Explain working of optical type pyrometer.

Q.14 Explain working of transmission type Dynomometer in detail.

Q.15 Explain any five sources of errors in measurements.

Q.16 Explain the working of Tool Maker's microscope in detail.

Q.17 Explain the method to measure flatness of a surface.

Q.18 Explain the working of dial indicator.

SECTION-C

Note: Long answer type questions. Attempt any one questions out of two questions. (10x1=10)

Q.19 Explain the construction and working of Rheo Viscometer in detail.

Q.20 Explain the construction and working of Zeiss optotest comparator in detail.