

Fourth Semester B.E. Degree Examination, May/June 2010
Mechanical Measurements and Metrology

Time: 3 hrs.

Max. Marks:100

*Note: Answer any FIVE full questions, selecting
at least TWO questions from each part.*

PART - A

1. a. What is metrology? State its objectives. (06 Marks)
 b. Define the following: (09 Marks)
 i) Line standard ii) End standard iii) Wavelength standard.
 c. What is wringing? Build the following dimensions using M-112 set: (05 Marks)
 i) 33.4565 ii) 87.1025.
2. a. Distinguish between tolerance and allowance. (04 Marks)
 b. Explain the principles of interchangeability and selective assembly. (06 Marks)
 c. Determine the actual dimensions for a hole-shaft pair designated as $28H_7/f_8$. Dimension 28 falls in the range of 18 to 30 mm. Fundamental deviation for f shaft is $-5.5D^{0.41}$, $IT_7 = 16\mu$ and $IT_8 = 25\mu$. Tolerance unit $i = 0.45(D)^{1/3} + 0.001D$ (microns). (10 Marks)
3. a. Sketch and explain the following comparators: (12 Marks)
 i) Zeiss optimeter ii) Solex comparators.
 b. With a neat figure, explain the principle of sine bar. (04 Marks)
 c. Build the following angles: (04 Marks)
 i) $49^\circ 36' 48''$ ii) $35^\circ 32' 36''$
4. a. Explain how the straightness can be measured by using an autocollimator. (08 Marks)
 b. Explain the 3 wire method of measuring the effective diameter of a screw thread. (08 Marks)
 c. Briefly explain the working of a tool-maker's microscope. (04 Marks)

PART - B

5. a. With a suitable example, explain the generalized measurement system. (06 Marks)
 b. Define the following terms: (08 Marks)
 i) Accuracy ii) Precision iii) Calibration iv) Hysteresis.
 c. With a block diagram, distinguish between primary and secondary transducers. (06 Marks)
6. a. What is the requirement of an intermediate modifying device? Explain the inherent problems, with a mechanical system. (08 Marks)
 b. With a neat figure, explain the ballast circuit. (06 Marks)
 c. Explain the working of a CRO. (06 Marks)
7. a. Sketch and explain the working of a platform balance. (06 Marks)
 b. With a neat figure, explain the prony brake dynamometer. (08 Marks)
 c. Discuss the working of McLeod gauge. (06 Marks)
8. a. What is a thermocouple? State and explain the laws of thermocouple. (08 Marks)
 b. Discuss the construction and working of an optical pyrometer. (08 Marks)
 c. What is a strain gauge? (04 Marks)

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