

B.Tech. 4th Semester (AUE) F-Scheme Examination,
May-2018

MEASUREMENT AND INSTRUMENTATION

Paper-AUE-212-F

Time allowed : 3 hours] [Maximum marks : 100

Note : Attempt five questions out of nine questions. Q. No. 1 is compulsory. Students have to attempt one question from each of four sections.

1. (a) Why are sin bars not used for large angle measurement?
(b) Explain thermocouples.
(c) What is CMMS?
(d) Explain optical measuring instruments.
(e) Define error in instruments. 5×4=20

Section-A

2. Explain in detail static and dynamic performance characteristic of measurement system. 20
3. Explain with neat and clean diagram linear and angular displacement measurement. 20

Section-B

4. What is transducer? Explain types of transducers. 20

5. Explain in detail any digital measurement instrument. 20

Section-C

6. Explain with diagram construction and working of gear tooth vernier. 20
7. Explain with diagram measurement of angles and tapers. 20

Section-D

8. Explain with diagram construction and working of optical pyrometer. 20
9. Explain with diagram construction and working of hydraulic dynamometer. 20

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