



TEE-503

Printed Pages : 7

PAPER ID : 105503

Paper ID and Roll No. to be filled in your Answer Book.

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B. Tech.

(SEM. V) (ODD SEM.) EXAMINATION, 2011-12

**APPLIED &
ELECTRONICS INSTRUMENTATION**

Time : 3 Hours]

[Total Marks : 100

1 Attempt any **four** parts :

5×4=20

(a) Explain the following terms with suitable example and graph

Accuracy and Precision

Dead time and Dead zone

Sensor and Actuator

(b) What are the input test signals and give the dynamic characteristics for the first order system with suitable example ?

(c) Why Sensitivity and Linearity are the two conflicting requirements in a resistive potentiometer ?

(d) Two plates of parallel plate capacitive transducer are 30 mm apart and the space is filled with two different dielectric material, one material is 1 cm thick with a dielectric constant of 5 and other is 20 mm thick with dielectric constant of 10, if the capacitive transducer were to be made with single dielectric material, what is the dielectric constant of that material ?

105503]

1

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