18ECO133T - SENSORS AND TRANSDUCERS

sk0431@srmist.edu.in Switch account
② Draft saved
Your email will be recorded when you submit this form
* Indicates required question
MCQ QUESTIONS
is 'a device that transfers power from one system to another * 1 point in the same or in the different form.
a. Sensor
b. Transducer
c. Signal conditioning circuit
d. Input signal
Which of the following criteria is not true about sensor classification? * 1 point
a. Transduction principles using physical or chemical effects
b. Primary input quantity, that is, the measurand
C. Property
d. Sensitivity

Which of the following error is caused by poor calibration of the instrument?	* 1 point
a.Random error	
) b.Grosserror	
c.Systematic error	
d.Precisionerror	
is the difference in the output of the sensor for a given input x when x reaches the value in upscale and downscale directions	* 1 point
a.Hysteresis	
O b.Resolution	
C.threshold	
O d.selectivity	
Potentiometer transducers are used for the measurement of *	1 point
a. Pressure	
b. Displacement	
C. Humidity	
d. Both a & b	

describes the performance of the sensor, which does not vary with time.	1 * 1 point
a.Static characteristics	
b. Dynamic characteristics	
c. Environmental characteristics	
d. Reliability Characteristics	
is defined as the smallest incremental change in the input that would produce a detectable change in the output.	* 1 point
a.sensitivity	
b.Resolution	
C.Selectivity	
O d.Isolation	
is the closeness to truevalue *	1 point
a.Zero stability	
b.Accuracy	
C.Sensitivity	
O d.Linearity	

The desirable Statio	characteristic of a measuring system are: *	1 point
a. Accuracy & Re	producibility	
b. Accuracy, Sen	sitivity & Reproducibility	
c. Drift & Dead z	one	
d. Static Error		
	is close to precision which is the difference in the first the input x when obtained in two consecutive	output * 1 point
a.repeatability		
b.amplification		
c.resolution		
O d.sensitivity		
There occurs a high which then is called	n local field in the material which may be defect-ind	duced" * 1 point
a. Extrinsic brea	kdown mechanism	
b. Intrinsic break	down mechanism	
C. Exponential b	reakdown mechanism	
d. Log breakdow	n mechanism	

Overlapping of signals between the two adjacent transducer element is * 1 point called a. Noise b. Cross talk c. Leakage d. Breakdown Reliability function is given by ------* 1 point a. R(x) = 1 + F(x)b. R(x) = 1- F(x) c. R(x) = 1 * F(x)d. R(x) = 1 / F(x)Identification of failure sensor nodes in Thermal shock test is done by ------ * 1 point a. Sensors are subjected to high temperature of about 125°C for 48 hours b. Sensors are baked at high temperature of 250 °C for several hours c. Progressively larger voltages up to 50% in excess are applied over different intervals of time d. sensors are subjected to -65 °C and 125 °C for about 10 sec for every temperature

Acc	celerated ageing test is done by*	ooint
0	a. sensors are subjected to -65 °C and 125 °C for about 10 sec for every temperature	re
•	b. High stress is imposed on sensor – results are used to predict the performance normal stressed condition	in
0	c. Progressively larger voltages up to 50% in excess are applied over different intervals of time	
0	d. sensors are subjected to -65 °C and 125 °C for about 10 sec for every temperature	re
Bac	k Submit Clea	r form

Never submit passwords through Google Forms.

This form was created inside of SRM Institute of Science and Technology. Report Abuse

Google Forms