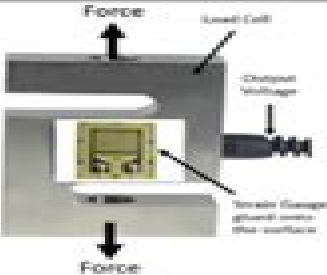


## Question 1

An S-type load cell was calibrated at an accredited laboratory in the UK. The calibration was done at two temperatures 5°C and 30°C, at load range 0kN to 20kN. During calibration the load on the load cell was applied in steps of 5kN using a high performance calibrated loading machine. The differential output voltage generated by the load cell were measured using a calibrated voltmeter. The output voltages when load increasing and decreasing are recorded as shown in **Error! Reference source not found..** Moreover, a strain gauge was attached onto the outer surface of the load cell to measure induced strain on the surface when load applied to the load cell during calibration (Figure Q1).

**Table Q1.**

	Load (kN)	VOLTAGE OUTPUT (mV) AT 5°C		VOLTAGE OUTPUT (mV) AT 30°C	
		Load Increasing	Load decreasing	Load Increasing	Load decreasing
 <p><b>Figure Q1.</b> <i>Load cell assembly</i></p>	0.00	0.00	0.02	0.05	0.07
	5.15	0.75	0.72	0.75	0.77
	10.10	1.31	1.42	1.45	1.47
	15.15	2.15	2.12	2.15	2.17
	20.20	2.84	2.82	2.85	2.87

**Answer the following:**

- a) Calibration of measuring instruments is vital in engineering industry. You are required to describe the calibration process applied to measuring instruments. You may use annotated sketches, graphs, diagrams to aid your answer (maximum one page).

**(5 marks)**

- b) Define what a measuring instrument is, and explain the ALL signal stages. You may use sketches, diagrams and annotations to aid your answer.

**(3 marks)**

# Instrumentation Exam Questions

**R Pring**



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