Sem-III Torensolycens-I zolslog IHSST 4 May 09 HP 19 Con. 2719-09. VR-3339.

## (REVISED COURSE)

(3 Hours)

[ Total Marks 100

N.B	Ûı-	(1) Question No. 1 is compulsory. (2) Solve any four questions out of remaining six questions. (3) Assume suitable data, if necessary.	
1.	(b)	Classify transducers with suitable examples.  Compare Accuracy and precision.  A meter reads 127-50 V and the true value of the voltage is 127-43 V. Determine—  (i) the static error and  (ii) the static correction for the instrument.	8 4 4
	(d)	Explain the elements of the measurement system.	4
2.		사용도 이렇게 되었다면 보이트 1000 HEAT 등 1000 HEAT HEAT HEAT HEAT HEAT HEAT HEAT HEAT	10 10
		(iii) The resistance of RTD is measured with ohm meter has range 0·200Ω '1000' equal divisions. Calculate sensitivity and resolution.	
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4.	(a)	Explain the following :-  (i) Seebeck effect  (ii) Peltier effect  (iii) Thomson effect	10
	(b)	A linear resistance potentiometer is 5 cm long and having a resistance of 10 K $\Omega$ . Under normal conditions, the slider is at the centre of the potentiometer. What will be the displacement, when the resistance, of the potentiometer as measured by the bridge circuit is—  (i) 3.8 K $\Omega$ and 8.3 k $\Omega$ (ii) Comment on the direction of motion of slider.	10
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	(a) (b)		10
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