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	2223 Ho		70	Marks	Seat	No.							
Instructions – (1)			(1)	All Questions are Compulsory.									
			(2)	Answer each	next main	Questi	ion o	on a	ne	w	pag	e.	
			(3)	Illustrate your necessary.	answers v	with ne	eat sl	cetc	hes	wł	nere	ever	
			(4)	Figures to the	e right indi	cate fi	ıll m	ark	s.				
			(5)	Assume suitab	ole data, if	neces	sary.						
			(6)	Use of Non-p Calculator is	•		ctron	ic l	Poc	ket			
			(7)	Mobile Phone Communicatio Examination I	n devices	•							
]	Ma	rks
1.		Attempt	any	FIVE of the	following:								10
	a)	Define transducer.											
	b) State differen			t types of pressures.									
c) State various			rious	types of variable headflow meters.									
	d) Give a classi methods.			fication of various indirect level measurement									
e) Define therm			herm	istor.									
f) State applicat				ions of LVDT.									
	g)	State applications of RADAR type of level transducer.											

2. 12 Attempt any THREE of the following: a) Describe with neat sketch the working principle of venturimeter. b) Draw a labelled diagram and state the working principle of RVDT c) Draw a neat sketch of inclined tube manometer and explain it's working principle. d) "Ultrasonic method of level measurement is most suitable method for measuring flow of hazardous liquid". Justify this statement with a neat sketch. 3. Attempt any THREE of the following: 12 a) Draw a labelled diagram of bellows and explain it's working principle. b) Explain with neat sketch the radiation pyrometry technique for measuring the temperature. c) Explain with a suitable diagram the working of nuclear radiation type level measurement. d) Draw a neat sketch and explain the working of bimetallic thermometer. 4. Attempt any THREE of the following: 12

- a) "Capacitive type of level measurement is most suitable method for measuring level of water tank". Justify this statement with neat sketch.
- b) Explain with a labelled diagram the working of thermocouple.
- c) Explain with neat sketch the working of angular potentiometer.
- d) Explain with neat sketch the doppler doppler type of flowmeter.
- e) Explain the working of C-type Bourdon tube with neat sketch.

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5.

- a) Explain with labelled diagram the working principle of LVDT. Show three core position.
- b) Explain with neat sketch the working of vapour pressure thermometer for temperature measurement. State it's specifications.
- c) Explain the concpet of Carriolis mass flow meter along with a neat sketch.

6. Attempt any TWO of the following:

12

- a) Explain with labelled diagram the apparatus for calibrating air purge and capacitive system.
- b) The flow of running water can be measured using orifice plotte. Justify with neat sketch.
- c) Explain with neat sketch the temperature calibration method.