22420

2.	3242	2												
3	Ho	urs	/	70	Marks	Seat	No.							
	Instru	ctions	r —	(1)	All Questions	are Comp	oulsory	<i>.</i>						
				(2)	Answer each	next main	Ques	tion	on	a no	ew	pag	ge.	
				(3)	Illustrate your necessary.	r answers	with r	neat s	sketa	ches	w w	here	ever	
				(4)	Figures to the	e right ind	icate 1	full r	nark	S.				
				(5)	Assume suita	ble data, it	f nece	ssary						
				(6)	Use of Non-J Calculator is	programmal permissible	ble El e.	ectro	nic	Poc	ket			
				(7)	Mobile Phone Communication Examination	e, Pager ar on devices Hall.	nd any are ne	othe ot pe	er E ermi	lect ssib	ron le i	ic n		
													Ma	rks
1.		Atte	mpt	any	<u>FIVE</u> of the	following	•							10
	a) Define active and passive transducers.b) List out pressure measuring devices.													
c) Define laminar and turbulent flow.														
d) State any two advantages of radiation level measure								eme	nt.					
	e)	Write	e ar	ny tw	o limitations of	of electrom	agneti	c flo	wr	nete	er.			

- f) State seeback effect.
- g) Define PT-100.

2.

3.

4.

a)

- c) Compare RTD with thermistor.
- d) State the uses of RADAR type level measurement and list two advantages.
- Describe the salient features of capacitor type level meter and e) nuclear radiation type level meter.

5. Attempt any TWO of the following:

- Convert a)
 - 250° F i)
 - 330° F ii)

into Celsius (°C), Kelvin (°K) and Rankine (°R)

- b) What is pyrometry? Explain working of optical pyrometer with neat diagram. State its one application.
- c) How pressure gauge is calibrated with dead weight tester. Explain with diagram.

Marks

12

12

12

6. Attempt any <u>TWO</u> of the following:

- a) Draw constructional diagram of LVDT. State working principle. What is residual voltage. Explain neat diagram.
- b) State advantages and disadvantages of Rotameter. Explain it with neat diagram.
- c) Explain the hydrostatic type level instrument using air purge method. List it's advantages and disadvantages.

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