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1242: 03 H	5 Iours / 70 Marks Seat No.
Instru	actions – (1) All Questions are Compulsory.
	(2) Answer each next main Question on a new page.
	(3) Illustrate your answers with neat sketches wherever necessary.
	(4) Figures to the right indicate full marks.
	(5) Assume suitable data, if necessary.
	(6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.
	Marks
1.	Attempt any <u>FIVE</u> of the following: 10
a)	Define dynamic error of an instrument.
b)	Enlist two instruments used for high temperature measurement.
c)	Enlist two instruments used for humidity measurement.
d)	State any four units of pressure.

- e) State the relation between:
 - i) Pa and N/m²
 - ii) Kg/cm² and psi
 - iii) atm and kg/cm^2
 - iv) mm Hg and Pa
- f) Draw neat labelled figure of Hook gauge.
- g) Draw stress-strain curve.

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- d) Explain with neat figure the magnetic level indicator.
- Explain slipping clutch tachometer with neat figure. e)

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Marks

5. Attempt any <u>TWO</u> of the following: 12 a) Explain pressure thermometer with neat figure. b) Describe LVDT with neat figure. c) Explain working of ultrasonic flow meter with neat figure. 6. Attempt any <u>TWO</u> of the following: 12 a) Describe working of optical pyrometer with neat figure. b) Explain working of Diaphragm pressure gauge with neat figure. c) Describe with neat figure the anemometer for flow measurement.