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6	a.	Explain the measurement of leakage factor using search coil.	(08 Marks)
		Explain Hopkinson's permeameter.	(06 Marks)
	c.	What is shunt? How it is used to extend range of an ammeter?	(06 Marks)

Module-4

		<u>1v10uu1e-4</u>	
7		Explain the operation of true rms reading voltmeter.	(07 Marks)
	b.	With a neat diagram, explain the working of electronic multimeter.	(07 Marks)
	c.	Explain the working of Ramp type digital voltmeter.	(06 Marks)

OR

- 8 a. Explain working of an electronic energy meter, list the drawbacks of traditional energy meter. (08 Marks)
 - b. Explain integrating type DVM with neat sketch. (07 Marks)
 - c. A coil with a resistance of 12Ω is connected in direct connection mode of Q meter resonance occurs. When oscillator frequency is 1 MHz and the resonating capacitor is set at 75 pf. Calculate % error introduced in calculate value of Q by 0.02Ω insertion resistance.

Module-5

- 9 a. Write a note on Nixie tube with neat sketch.
 - b. With a neat diagram, explain LED display.
 - c. Write a note on Dot Matrix display.

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OR

- 10 a. With a neat sketch, explain working of X-Y recorder.
 - b. Write a note on LVDT type recorder.
 - c. Explain the block diagram of ECG (Electro Cardio graph)

(07 Marks)

(07 Marks)

(05 Marks)

(06 Marks)

(07 Marks)

(07 Marks)

(06 Marks)

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