## 22325

22223 3 Hours /	70	Marks	Seat	No.								
Instructions –	(1)	All Questions	are Comp	ulsor	<i>y</i> .							
	(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 suitab	le data, if	nece	essa	ry.						
	(6)	Mobile Phone, Communication Examination H	Pager and devices [all.	d any are n	y of not	ther per	E mis	lect sibl	roni le i	n		
										]	Mai	rks
1. Attemp	t any	<b><u>FIVE</u></b> of the	following:									10
a) Define	the te	rms:										

- i) Accuracy
- ii) Precision
- b) State the function of deflecting torque.
- c) List classification of resistances along with their measuring devices used for measurement of resistance valve.
- d) List the applications of multimeter.
- e) State the working principle of dymeter type wattmeter.
- f) State the effects of unity power factor and zero pf on wattmeter reading.
- g) State the methods of range extension of ammeter.

2.

## Marks

## 5. Attempt any <u>TWO</u> of the following: 12 a) Describe working of function generator with neat sketch. b) State necessity of calibration of measuring different devices and list its procedures. c) Describe construction with neat sketch of megger. 6. Attempt any <u>TWO</u> of the following: 12

- a) Describe working principle and use of rotating phase sequence indicators.
- b) Describe with sketches single phase energy meter for electrical energy measurement.
- c) i) Draw neat diagram of Kelvin double bridge.
  - ii) Draw neat diagram of CRT and describe its construction.