1288

Code	6	15EC34T
------	---	---------

[Turn over

Register				•
Number	<u> </u>			

III Semester Diploma Examination, April/May-2018

ELECTRONIC MEASUREMENTS & INSTRUMENTATION

Tim	e : 3 Hours	[Max. Marks : 100			
Note: (i) Answer any six full questions from Part – A: $(5 \times 6 = 30 \text{ Marks})$ (ii) Answer any seven full questions from Part – B. $(7 \times 10 = 70 \text{ Marks})$					
		BETA CONSOLE!			
	PART – A	Diploma - [All Branches			
1.	Explain the working principle of Wheatstone bridge.	5			
2.	List the factors which describes the selection of transducer.	Diploma Question Papes [2015 19] Beta Console Education			
3.	Explain the working of peak responding voltmeter.	5			
4.	Define:	5			
	(i) Voltmeter sensitivity				
	(ii) Calibration of meter				
5.	List the features of distortion analyser.	5			
6.	Describe the working of Digital Storage Oscilloscope. (DSO)	5			
7.	Explain the working of successive approximation type DVM.	5			
. 8.	Explain the working of Digital Frequency Meter.	5			
9.	Discuss the precautions to prevent damage to measuring instru	ments. 5			

1 of 2

	••	2 01 2	1288
		PART - B	
10	and an approprie current Mic	easurements was taken by six observers a	ns 10
	12.8 MA, 12.2 MA, 12.5 MA, I	3.1 MA, 12.9 MA & 12.4 MA	
	Calculate:	, , , , , , , , , , , , , , , , , , , ,	
	(i) Arithmetic mean		
	(ii) The deviation from the me	an	
11	. (a) With neat figure, explain w	vorking of a piezo-electric transducer.	
•	(b) Compare AC and DC bridge	ges.	5
			5
12.	Explain the working of	3/7# A	
	(a) L.V.D.T.	BE I A	CONSOLE 10
	(b) Thermo couple		Diploma - [All Branches]
		Be	eta Console Education
13.	Explain the working of	[3*	l
			10
	AL amin Michel	Dip	loma Question Papers [2015-
	(b) Shunt type ohm-meter	19	angele. Education
1.4	Earl 1	Deta Co	nsole Education
14.	Explain the operation of basic d.c	ammeter & explain why shunt resistor	is necessary
	with an example.		10
		· ·	v - 2
15.	With neat block diagram, explain	the operation of Cathode Ray Oscillosco	pe. (CRO) 10
16.	Sketch the neat block diagram of	digital storage oscilloscope & explain	
	and list its applications.	digital storage oscilloscope & explain	its working
٠	oppvanoiis.		10
17.	With neat block diagram, overlains	4. 1	•
	With neat block diagram, explain t	ne working of Ramp type DVM.	10
18.	Explain the working of LCD		
- •	Explain the working of L.C.R. met	er with neat block diagram.	10
19.	(a) Explain the procedure of gen.		
	(b) Write short notes on grounding	eralized trouble shootings in instruments	•
	(b) Write short notes on grounding	ng and shielding.	10