BIEL-026

DIPLOMA – VIEP – ELECTRONICS AND COMMUNICATION ENGINEERING (DECVI) / ADVANCED LEVEL CERTIFICATE COURSE IN ELECTRONICS AND COMMUNICATION ENGINEERING (ACECVI)

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Term-End Examination

December, 2016

BIEL-026 : PCB DESIGN AND TESTING

Time : 2 hours

Maximum Marks: 70

Note: Attempt any five questions. All questions carry equal marks.

- Explain the procedure for determining the value of resistance, capacitance and inductance in a laboratory, without employing the use of analog/digital multimeter.
- 2. (a) Draw and explain the characteristics of an n-p-n transistor in common-emitter configuration.
 - (b) List the various types of power supply available in a laboratory. What are the different trouble-shooting methods to identify faults in a power supply ?

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3.	(a)	List the advantages of a digital multimeter	
		over an analog multimeter.	7
	(b)	Explain the operation of a digital multimeter.	7
4.	(a)	Differentiate between manual and computer aided artwork.	7
	(b)	Draw and explain the characteristics of SCR.	7
5.	-	ain the various steps involved during the cation of a PCB.	14
6.	(a)	List out various limitations experienced while making measurement with DMM.	7
	(b)	Briefly explain the procedure for determining the frequency of an unknown signal using an oscilloscope.	7
7.	Writ	The short notes on the following : 2×7	•

- (a) Multilayer PCB
- (b) Circuit Simulation Tool

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