BIEL-026

DIPLOMA - VIEP - ELECTRONICS & COMMUNICATION ENGINEERING - III SEM (DECVI) / ADVANCED LEVEL CERTIFICATE COURSE IN ELECTRONICS & COMMUNICATION ENGINEERING (ACECVI)

Term-End Examination

June, 2013

BIEL-026 : PCB Testing & Designing

Time : 2 hours

Maximum Marks: 70

- **Note**: (i) Attempt **any five** questions.
 - (ii) Each question carries equal marks.
 - (iii) All questions are to be answered in English only.
- 1. (a) Define active and passive components. 7
 - (b) Explain the computer aided artwork for 7 PCB design.
- (a) Explain the use of digital multimeter in 7 trouble shooting and testing with help of suitable example.
 - (b) Explain the procedure for making PCB 7 layout.
- **3.** Explain in general, mechanical and electrical **14** consideration while checking the PCB layout.

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4.	(a)	Explain etching operation with cupric chloride.	7	
	(b)	Explain briefly about Solder and Flux.	7	
5.	(a)	Explain testing procedure of transistor using multimeter.	7	
	(b)	Explain soldering technique with the help of suitable example.	7	
6.	(a)	Explain briefly step involved in the PCB fabrication.	7	
	(b)	Explain wave soldering method.	7	
7.	(a)	What are the general consideration for a good layout design ?	7	
	(b)	Explain the artwork and layout for PCB.	7	
8.	Writ	Write short notes on <i>any two</i> of the following :		
	(a)	Protus 2x7	=14	
	(b)	Simulink		
	(c)	MATLAB		

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