(3 Hours)

[Total Marks: 80]

N.B: (1) Question No.1 is compulsory. (2) Solve any three out of remaining questions.			
(3)	Assui	me suitable data if necessary.	
Q.1	Solve any Four		
<b>V</b>	a.	What are the issues while formulating a test plan?	05
	b.	Explain the phases of new product development.	05
	c.	What are the performance and efficiency measures in hardware testing?	05
	d.	Draw and label the microstrip geometry for PCB design.	05
	e.	What is the difference between active and passive component?	05
Q.2	a.	Explain waterfall model of software development life cycle.	10
	b.	Explain how simulation, prototyping and parametric testing support the engineering development, system integration and training.	10
Q.3	a.	State clearly the limitations and advantages of the Spiral model in EPD.	10
	b.	Design the front panel of a digital multimeter by taking care of ergonomics and aesthetic design considerations.	10
Q.4	a.	What are the different steps in hardware designing of an electronic product? What is the difference between system requirement specifications and design specifications?	10
	b.	What is the roll of documentation in quality product design?	10
Q.5	a.	What is integration, verification and validation in Electronic Product Designing?	10
	<b>b</b> .	How to handle EMI/EMC issues in an Electronic Product?	05
	) (C	What is the role of A to D converter in product designing?	05
	Wı	rite short note on any four	
Q.6	a.	Need of Prototyping.	05
	<b>b.</b>	Image Plane.	05
	5°C.	Different electrical infrastructure considerations.	05
		Different grounding methodologies.	05
	e.	Risk management in software testing.	05

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