

Bharati Vidyapeeths College Of Engineering For Women, Pune.
Subject: Electronic Product Design

Unit Test-11
Marks-50
Time-1.5hr
Year:2010

Ques1 a. Define different types of suppressors? What is the selection criteria to select TVS for any application. (6)

Ques 2. Explain the main factors to be considered for signal conductors in (8)

1. High frequency amplifiers/ oscillators
2. Low level signal amplifiers

Ques 3. Explain with justification and schematic arrangement the type of instrument that should be used to find faults in following circuits. (8)

1. Combinational logic circuit producing glitches.
2. Sequential logic circuit producing erratic output due to slow rising edge of clock.

Ques 4 What are the desirable features of (8)

1. Assemblers
2. Cross compilers

Ques 4 Explain the different temperature tests carried out on an industrial product. Also indicate the various parameters related to each test. (8)

Ques 5 With suitable electronic product, draw/ prepare the following documents. (12)

- 1 Wiring diagram
- 2 Bill of material
- 3 Product test specification
- 4 PCB fabrication drawing

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Unit Test-1
Marks-30
Time-1hr
Year:2010

- Q1:..Write short note on Ergonomics and Aesthetics. [06]
- Q2:Define Failure Rate, MTTF,MTBF,MTTR [06]
- Q3:Explain important considerations for EMI/EMC in designing PCB. [06]
- Q4:What is Monte Carlo Analysis .List different types of probes used for Logic Analyser [06]