Code No: B0601



Max. Marks: 60

NR

Answer any five questions All questions carry equal marks - - -

- Derive the reliability of a system in terms of reliabilities of the subsystems used to build 1.a) it.
- Define Maintainability and Availability and explain them clearly with relevance to a b) system.
- 2.a) Explain the importance of fault tolerance.
- b) Explain the reliability of triple Modular redundancy.
- 3. Explain totally self-checking checker for Berger codes.
- 4. Explain fail safe design of sequential circuits using partition theory.
- 5.a) Explain Reed Mullar's expansion technique for testable combinational circuits.
- Explain use of control and syndrome testable design technique for testable b) combinational circuits.
- 6.a) Explain theory and operation of LFSR.
- Explain Signature analyzer. b)
- Differentiate classic scan design and Level Sensitive Scan Design approaches. 7.a)
- Discuss advantages of Level Sensitive Scan Design Technique. b)
- 8.a) Discuss importance of BIST for VLSI chips.
- Discuss various test pattern generations for BIST exhaustive testing with example. b)
