Code: 9D06103

Time: 3 hours   Max Marks: 60

Answer any FIVE questions
All questions carry equal marks
*****

1 (a) Explain the equal duration computation model for the multiprocessors.
   (b) How are the performance of computer systems are measured? Explain.

2 (a) Explain the process of encoding an instruction set.
   (b) Describe the addressing modes for signal processing.

3 (a) Explain how hardware based speculation can address these limitations.
   (b) What is the degree of parallelism? Explain.

4 (a) Give a brief account on instruction level parallelism.
   (b) Explain basic VLIW approach.

5 (a) What is meant by dynamic scheduling? Explain.
   (b) Discuss the significance of virtual memory.

6 (a) Differentiate vector and multithread architecture.
   (b) What is vector processing and list its characteristics?

7 (a) What are the rules in designing an I/O system?
   (b) Discuss design space of shelving.

8   Write short notes on:
   (a) RAID.
   (b) Designing a cluster.

*****