Attempt any two questions:

The figures in the margin indicate full marks.

(Computer Architecture)

- 1. Explain the different types of addressing modes and compare each other.
- 2. What are the major differences between I/O bus and interface modules? What are the advantage and disadvantage of each?
- 3. What are the three possible modes to transfer the data to and from peripherals? Explain.

Short Questions:

Answer any ten questions:

4. Differentiate between parity checker and parity generator.

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- 5. What do you mean by shift micro-operations? Explain.
- 6. Explain the computer instruction with example.
- 7. Mention the type of interrupt and explain it.
- 8. What do you mean by field decoding? Explain.
- 9. Write down the following equation in three address, two address and one address instruction.

$$Y = AB + (C \times D) + E(F/G)$$

- 10. Explain the characteristics of RISC and CISC.
- 11. Explain the booth algorithm with example.
- 12. What is the main function of DMA? Mention the three points DMA configurations.
- 13. What are the different types of I/O commands? Explain.
- 14. Differentiate between associative page table and replacement.
- 15. Write short notes on the following:
 - a. Memory space
 - b. Address space

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> Pass Marks: 32 Time: 3 Hours

Full Marks: 80

(10x6=60)

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Candidates are required to give their answers in their own words as far as practicable.

(2x10=20)