

C 30348

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Name.....

Reg. No.....

FIFTH SEMESTER B.C.A. DEGREE EXAMINATION, NOVEMBER 2017

(CUCBCSS—UG)

BCA 5B 11—COMPUTER ORGANIZATION AND ARCHITECTURE

Time : Three Hours

Maximum : 80 Marks

Part A

Answer all questions.

Each question carries 1 mark.

1. An accumulator based computer supports _____ instruction format.
2. The memory technology which need less power is _____.
3. _____ is the first process in instruction execution.
4. The other name for the associative memory is _____.
5. CISC stands for _____.
6. The classification of SISD, SIMD, MISD and MIMD is known as _____.
7. The transformation of data from main memory to cache is _____.
8. Array processor is _____.
9. The main memory broken into equal size is called _____.
10. EEPROM stands for _____.

(10 × 1 = 10 marks)

Part B

Answer all questions.

Each question carries 2 marks.

11. What is an instruction ?
12. How memory access time can be calculated ?
13. What is PSW ?
14. Collision ?

mplicit addressing modes.

(5 × 2 = 10 marks)

Turn over

Part C

*Answer any five questions.
Each questions carries 4 marks.*

16. What is meant by instruction sequencing ?
17. Explain register organization of CPU.
18. Explain page replacement technique.
19. Explain how data dependency can be handled.
20. Explain the organization of RAM with diagram.
21. Explain DMA controller.
22. Explain one and two address Instructions.
23. Explain the system bus structure with neat diagram.

(5 × 4 = 20 marks)

Part D

*Answer any five questions.
Each questions carries 8 marks.*

24. Explain the block diagram of basic computer.
25. Explain magnetic disk with neat diagram.
26. Explain the terms :
 - (a) BCD Adder.
 - (b) BCD Subtractor.
27. Describe in detail about associative memory.
28. Write in detail about program control.
29. Explain micro program sequence in control unit.
30. Write about
 - (a) Multiprocessors.
 - (b) Synchronizations.
31. Explain the Flynn's classification of computers.

(5 × 8 = 40 marks)