

11. During a write operation if the required block is not present in the cache then..... occurs.
 - a. Write miss
 - b. Write latency
 - c. Write hit
 - d. Write delay
12. After binary multiplication the result is accumulated in.....
 - a. E Register
 - b. Q Register
 - c. EA Register
 - d. EAQ Register
13. Which one of the following is not a valid classification of Computer Architecture according J.M Flinn's?
 - a. SISD
 - b. MISD
 - c. DISD
 - d. MIMD
14. Serpentine writing technology is used in.....
 - a. Cache memory
 - b. Hard disk
 - c. Optical Disk
 - d. Tape memory
15. LRU is a commonly used cache replace policy, which means.....
 - a. Load Register Used
 - b. Least Recently Used
 - c. Last Recent Used
 - d. Local Register Used
16. The CISC stands for.....
 - a. Computer Instruction Set Compliment
 - b. Complete Instruction Set Compliment
 - c. Computer Indexed Set Components
 - d. Complex Instruction set computer
17. The iconic feature of the RISC machine among the following is.....
 - a. Reduced number of addressing modes
 - b. Increased memory size
 - c. Having a branch delay slot
 - d. All of the mentioned
18. Pipe-lining is a unique feature of.....
 - a. RISC
 - b. CISC
 - c. ISA
 - d. IANA
19. Two level memory is a principle known as.....
 - a. Direct Memory Access
 - b. Associative memory
 - c. Locality of Reference
 - d. Virtual memory
20. The multiplier is stored in.....
 - a. PC Register
 - b. Shift register
 - c. Cache
 - d. None of the mentioned

(Descriptive)

Time : 2 hr. 30 mins.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

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| 1. Explain Pin Configuration of 8085 microprocessor with the help of a suitable block diagram. | 10 |
| 2. a) Explain Edge Triggered Flip Flop with block diagram.
b) What is micro-program? Write down three examples of Logic and Shift micro-operations. | 5+5=10 |
| 3. a) Given A= 10110 B= 10010 , then compute AxB with suitable algorithm.
b) What is interrupt signal? What are different interrupt signal available? Explain. | 5+5=10 |
| 4. a) What is control word? Explain with example how a computer executes instructions with relevance to control word.
b) Write an Assembly program to add two numbers. | 5+5=10 |
| 5. a) What is Clock? Why it is used in digital circuit? Define synchronous vs asynchronous communications.
b) What is peripheral? Write down the role on interface unit in IO devices. | 5+5=10 |
| 6. Elaborate RAID technology used in disk memory organization. | 10 |
| 7. a) What is pipeline processing? Explain with a suitable example.
b) Realize a Full adder using two Half adder circuits. | 5+5=10 |
| 8. Write short notes on: (any two)
a) Infiniband
b) PCI Bus
c) Superscaler processor | 5+5=10 |

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