

11. Bus lines can be repeated into typesa. Oneb. Twoc. Threed. Four
12. Which of these is not a bus type dictateda. Dedicatedb. Multiplexedc. Non dictatedd. None of the above
13 Dedication of buses offers high throughouta. Functionalb. Physicalc. Both Physical and Functiond. None of the above
 14. In physical dedication, there is bus contention a. High b. Very high c. Less d. Very less
15. Multiplexed is also referred to as a. Dedicated b. Non- dedicated c. Non-dictated d. None of the above
16. The method of using the same bus for multiple purposes is known as a. Frequency division multiplexing b. Time multiplexing c. Wave division multiplexing d. None of the above
17. ALE stands for a. Address latch enable b. Address label enables c. Address line enables d. None of the above
18. Synchronous timing isa. Simpler to implementb. Simples to test



- c. is less flexible
- d. All of the above
- 19. What is the main cause of performance suffering in the device connected to the bus
- a. The more devices attached to the bus, the greater is the bus length
- b. The bus may become a bottleneck as the aggregate data transfer demand approaches the capacity of the bus
- c. Both a& b
- d. None of the above
- 20. MAB stands for
- a. Memory address buffer
- b. Memory address bus
- c. Memory address batch
- d. None of the above
- 21. DMA stands for
- a. Direct memory access
- b. Dedicated memory access
- c. Direct managed access
- d. None of the above
- 22. PPU stands for
- a. Point to point unit
- b. Peripheral Processor unit
- c. Processors peripheral unit
- d. Powered processor unit
- 23. ISA stands for
- a. International standard Association
- b. Industry-standard association
- c. Industry-standard architecture
- d. International standard architecture
- 24. Source and Result operands can be in
- a. Main memory
- b. CPU register
- c. I/O device
- d. All of the above
- 25. Each instruction is represented by a sequence of ____
- a. Bits
- b. Bytes
- c. Words
- d. Nibble



26. The are written in symbolic represented of machine code using English like
language called
a. Mini micros, Instructions
b. Instructions, Mnemonics
c. Program, Mnemonics
d. None of the above
27. Virtually all arithmetic and logic operations are
a. Unary
b. Binary
c. Either unary or Binary

28. ASCII stands for

d. Neither unary nor binary

a. Added source code to Instruction Index

b. American standard code for information and interchange

- c. Argued standard code for information and Interrelate
- d. None of the above
- 29. The general category of data is
- a. Addresses,
- b. Numbers
- c. Characters
- d. Logical data
- e. All of the above
- 30. All machine language in ___ data type
- a. Character
- b. Logical
- c. Numeric
- d. Addresses
- 31. The numbers stored in the computer are___
- a. limited
- b. Unlimited
- c. Zero
- d. None of the above
- 32. Which type of numerical data is used in common computers
- a. Integer or fixed point
- b. Floating-point
- c. Decimal
- d. All of the above



 33. IRA stands for a. International Relocation address b. Instruction Relocation address c. International Reference alphabet d. International Reference address
34. ASCIT is represented by pattern a. 6 bit b. 7 bits c. 8 bits d. 16 bits
35. ASCII encoded characters are usually stored and transferred as per characters a. 6 bit b. 7 bits c. 8 bits d. 16 bits
 36. Signed integers are stored in form a. 1's complement b. 2's complement c. 3's complement d. 9's complement
37. In VAX data types all data types are in terms of a. bits b. nibble c. byte d. Ward
38. Data transfer must specify a. The location of the source and destination b. Length of the data to be transferred c. Mode of addressing for each operand d. All of the above
39. Programmers use organizations called to represent the data used in computations a. Data types b. Data storage c. Data Structure d. Data class
40. The different ways in which the location of an open and is specified in instruction are referred to go



a. Addressing mode

- b. Instruction format
- c. Memory I/O
- d. Programmed I/O
- 41. Main memory stores ___ and ___.
- a. Data, instructions
- b. Data, address
- c. Address, instructions
- d. None of the above
- 42. I. For internal memory, the unit of transfer is equal to the number of data lines into and out of the memory module.
- a. I is true
- b. II is true

c. Both I and II True

- d. Both are false
- 43. I. In volatile memory, Information once recorded remains without deterioration until deliberately changed.
- II. In non-volatile memory, information decays naturally or is lost when electrical power is switched of.
- a. I is true
- b. II is true
- c. Both are true
- d. Both are false
- 44. How many transistors and capacitors does a DRAM cell need? SRAM cell?
- a. DRAM: 0 Capacitor and 6 Transistor and SRAM: 1 Capacitor and 0 Transistors
- b. DRAM: 1 Capacitor and 0 Transistor and SRAM: 6 Capacitors and 1 Transistor
- c. DRAM: 1 Capacitor and 1 Transistor and SRAM: 0 Capacitors and 6 Transistors
- d. DRAM: 0 Capacitor and 1 Transistor and SRAM: 1 Capacitor and 6 Transistors
- 45. Arrange the following in sequence the CPU must perform If one or both operands are in memory
- A Determine whether the addressed item is in cache
- B. Calculate the memory address based on the address mode
- C. If not the issue command to the memory module
- D. If the address refers to virtual memory, Translate from virtual to the actual memory address
- a. A, B, C, D
- b. D, B, C, A
- c. B, C, D, A
- d. B, D, A, C



- 46. Arrange in sequence operations performed by CPU.
- A. I/o module transfers data from to CPU.
- B I/o module gets data from the device
- C. CPU ready, CPU requests data transfer
- D. If ready, CPU requests data transfer
- E. I/o module returns device status
- a. A, B, C, D, E
- b. E, D, C, B, A
- c. C, E, D, A, B
- d. B, C, D, A, B
- 47. Arrange in increasing order actions that take place with programmed I/o.
- A) CPU may wait or come back
- B) I/o module does not interrupt CPU
- C) I/o module does not inform CPU directly
- D) CPU checks status bits periodically
- E) I/o module sets status bits
- F) I/o module performs the operation
- G) CPU requests I/o operation
- a. G, F, E, D, C, B, A
- b. A, B, C, D, E, F, G
- c. B, C, E, D, A, F, G
- d. D, A, B, C, F, G, E
- 48. Arrange the following in increasing order-
- A. A memory read the control signal on the control bus.
- B. Control signals to logic that adds 1 to the contents of the PC and stores the result back in the PC>
- C. A control signal that opens the gate allowing the contents of the MAR on to the address bus.
- D. A control signal that opens gates allowing the contents of the data bus to be stored in the MBR.
- a. A, B, C, D
- b. B. C. D. A
- c. D, C, B, A
- d. C, A, D, B
- 49. Arrange the following in increasing order-
- A. Store a word of data from a CPU register in a given memory location.
- B. Perform an arithmetic or logic operation and store the result in a CPU register.
- C. Fetch the content of a given memory location and load them into a CPU register.
- D. Transfer a word of data from one CPU register to ALU or another CPU register.
- a. C, A, D, B
- b. B, C, D, A



- c. A, B, C, D
- d. B, A, C, D
- 50. I. A signal applied to the word line by the address decoder selects the cell either for Read or Write operation.
- II. Bit lines are used to transfer stored data and its complement between the cell and data drivers.
- a. I is true
- b. II is true
- c. Both are true
- d. Both are false
- 51. Let tc, h, and tm represent the cache access time, hit ratio, and the main memory access time respectively, Then the average access time can be determined by the eqn.
- a. t = htc + (1-h) (tc+tm)
- b. t = htc + h (tc+tm)
- c. t = htc + (1+h) (tc+tm)
- d. None of the above
- 52. Expression for the efficiency of a system that uses a cache can be delivered as:
- a. = 1/[r(1-h)]
- b. = 1/[1+r(1-h)]
- c. = 1/[1-r(1-h)]
- d. = 1/(1+1-h)
- 53. Peripheral often use different ___ and ___ than the computer system to which they're attached.
- a. Data format, word length
- b. Memory, size
- c. Data format, memory
- d. None of the above
- 54. Which statements are invalid in the case of RAID.
- a. RAID is a set of physical disk drives viewed by the operating system as a single logical drive.
- b. Data are distributed across the physical drives of an array.
- c. Redundant disk capacity is used to store parity information, which guaranties data recoverability in case of a disk failure.
- d. All are valid
- 55. Match the following
- 1. Direct addressing mode I. The effective address of the operand is the contents of a register specified the instrument
- 2. Indirect addressing mode II The effective address of the operand is generated by adding a constant value to the contents of a register



- 3. Index mode III. The effective address of the operand is the contents of the register or memory location whose address appears in the instructions
- 4. Autoincrement mode IV. The operand is the given memory location
- a. 1:I, 2:II, 3:III, 4:IV
- b. 1:IV, 2:III, 3:II, 4:I
- c. 1:IV, 2:II, 3:III, 4:I
- d. 1:II, 2:III, 3:I, 4:IV
- 56. Match the following:
- A. Sequential I. Any location can be selected at random and directly accessed and addressed.
- B. Direct II. Word is retrieved based on a portion of its contents rather than its address
- C. Random III. Access is accomplished by direct access to reach a General vicinity, plus sequential searching, counting or Waiting to reach the final location.
- D. Associative IV. Data is accessed sequentially, the records may be passed until the record that is searched is found.
- a. A: IV, B:II. C:III, D:I
- b. A: IV, B:III, C:II, D:I
- c. A: IV, B:III, C:I, D:II
- d. A: I, B:II, C:III, D:IV
- 57. Match the following:
- A. Semiconductor I. Hard disks, Tape units
- B. Magnetic II. Main Memory, Cache, RAM, ROM
- C. Optical III. The optical laser is used.
- D. Magneto-optical IV. CD-ROM, CD-RW
- a. A:II, B:I, C:III, D:IV
- b. A:II, B:I, C:IV, D:III
- c. A:I, B:III, C:II, D:IV
- d. A:IV, B:III, C:II, D:I
- 58. Match the following related to the Memory hierarchy.
- A. Faster access time I. Greater capacity
- B. Greater capacity II. Greater cost per bit
- C. Slower access time III. Smaller cost per bit
- a. A:I, B:II, C:III
- b. C:I, B:II, A:III
- c. A:II, B:III, C:I
- d: A:III, B:I, C:II



59. Match the following:

A. PROM I. It can be programmed multiple times. The whole capacity needs to be erased by ultraviolet radiation before new programming activity. It cannot be partially programmed.

B. EPROM II. It is erased and programmed electrically. It can be partially Programmed.

C. EEPROM III. It can only be programmed once after its fabrication.

a. A:III, B:I, C:II

- b. A:I, B:II, C:III
- c. A:III, B:II, C:I
- d. A:II, B:III, C:I
- 60. Match the following data rate of various devices.
- A. Keyboard I. 100 bytes/sec
- B. Mouse II. 7 KB/sec
- C. USB III. 1.5 MB/sec
- D. 56 Modem IV. 10 bytes/sec

a. A:IV, B:I, C:III, D:II

- b. A:I, B:II, C:III, D:IV
- c. A:III, B:I, C:IV, D:I
- d. A:IV, B:III, C:II, D:I