1. The _____ format is usually used to store data.

- a) BCD
- b) Decimal
- c) Hexadecimal
- d) Octal

2. A source program is usually in _____

a) Assembly languageb) Machine level languagec) High-level languaged) Natural language

3. Which memory device is generally made of semiconductors?

a) RAM
b) Hard-disk
c) Floppy disk
d) Cd disk

4. The small extremely fast, RAM's are called as _____

- a) Cache
- b) Heaps
- c) Accumulators
- d) Stacks

5. The ALU makes use of _____ to store the intermediate results.

- a) Accumulators
- b) Registers
- c) Heap
- d) Stack

7. _____ are numbers and encoded characters, generally used as operands.

- a) Input
- b) Data
- c) Information
- d) Stored Values

9. _____ bus structure is usually used to connect I/O devices.

- a) Single bus
- b) Multiple bus
- c) Star bus
- d) Rambus

10. The I/O interface required to connect the I/O device to the bus consists of _____

- a) Address decoder and registers
- b) Control circuits
- c) Address decoder, registers and Control circuits
- d) Only Control circuits

11. To reduce the memory access time we generally make use of _____

- a) Heaps
- b) Higher capacity RAM's
- c) SDRAM's
- d) Cache's

12. _____ is generally used to increase the apparent size of physical memory.

- a) Secondary memory
- b) Virtual memory
- c) Hard-disk
- d) Disks

15. The time delay between two successive initiation of memory operation _____

a) Memory access timeb) Memory search timec) Memory cycle time

- d) Instruction dolay
- d) Instruction delay

16. The decoded instruction is stored in _____

a) IR b) PC c) Registers d) MDR

17. The instruction -> Add LOCA, R0 does _____

a) Adds the value of LOCA to R0 and stores in the temp registerb) Adds the value of R0 to the address of LOCAc) Adds the values of both LOCA and R0 and stores it in R0d) Adds the value of LOCA with a value in accumulator and stores it in R0

18. Which registers can interact with the secondary storage?

- a) MAR
- b) PC
- c) IR
- d) R0

19. During the execution of a program which gets initialized first?

- a) MDR
- b) IR
- c) PC
- d) MAR

20. Which of the register/s of the processor is/are connected to Memory Bus?

- a) PC
- b) MAR
- c) IR
- d) Both PC and MAR

21. The internal Components of the processor are connected by _____

- a) Processor intra-connectivity circuitry
- b) Processor bus
- c) Memory bus
- d) Rambus

22. The registers, ALU and the interconnection between them are collectively called as _____

- a) process route
- b) information trail
- c) information path
- d) data path

23. ANSI stands for _____

a) American National Standards Institute

b) American National Standard Interface

c) American Network Standard Interfacing

d) American Network Security Interrupt

24. The main advantage of multiple bus organisation over single bus is _____

a) Reduction in the number of cycles for execution

b) Increase in size of the registers

c) Better Connectivity

d) None of the mentioned

25. During the execution of the instructions, a copy of the instructions is placed in the _____

- a) Register
- b) RAM
- c) System heap
- d) Cache

26. A processor performing fetch or decoding of different instruction during the execution of another instruction is called _____

- a) Super-scaling
- b) Pipe-lining
- c) Parallel Computation
- d) None of the mentioned

27. An optimizing Compiler does _

- a) Better compilation of the given piece of code
- b) Takes advantage of the type of processor and reduces its process time
- c) Does better memory management
- d) none of the mentioned

28. The ultimate goal of a compiler is to _____

a) Reduce the clock cycles for a programming task

- b) Reduce the size of the object code
- c) Be versatile
- d) Be able to detect even the smallest of errors

29. When Performing a looping operation, the instruction gets stored in the _____

- a) Registers
- b) Cache
- c) System Heap
- d) System stack

30. The average number of steps taken to execute the set of instructions can be made to be less than one by following _____

- a) ISA
- b) Pipe-lining
- c) Super-scaling
- d) Sequential

31. CISC stands for _____

a) Complete Instruction Sequential Compilation

- b) Computer Integrated Sequential Compiler
- c) Complex Instruction Set Computer
- d) Complex Instruction Sequential Compilation

32. The instruction, ADD #45, R1 does _____

a) Adds the value of 45 to the address of R1 and stores 45 in that address

b) Adds 45 to the value of R1 and stores it in R1

c) Finds the memory location 45 and adds that content to that of R1

d) None of the mentioned

33. In case of, Zero-address instruction method the operands are stored in _____

- a) Registers
- b) Accumulators
- c) Push down stack
- d) Cache

34. Add #45, when this instruction is executed the following happen/s _____

a) The processor raises an error and requests for one more operand

b) The value stored in memory location 45 is retrieved and one more operand is requested

- c) The value 45 gets added to the value on the stack and is pushed onto the stack
- d) None of the mentioned

35. The addressing mode which makes use of in-direction pointers is _____

a) Indirect addressing mode

b) Index addressing mode

c) Relative addressing mode

d) Offset addressing mode

36. In the following indexed addressing mode instruction, MOV 5(R1), LOC the effective address is ______
a) EA = 5+R1
b) EA = R1
c) EA = [R1]
d) EA = 5+[R1]

37. The addressing mode/s, which uses the PC instead of a general-purpose register is _____

- a) Indexed with offset
- b) Relative
- c) direct
- d) both Indexed with offset and direct

38. The addressing mode, where you directly specify the operand value is _____

- a) Immediate
- b) Direct
- c) Definite
- d) Relative

39. The effective address of the following instruction is, MUL 5(R1, R2). a) 5+R1+R2 b) 5+(R1*R2) c) 5+[R1] +[R2]. d) 5*([R1] +[R2])

40. _____ addressing mode is most suitable to change the normal sequence of execution of instructions.

- a) Relative
- b) Indirect
- c) Index with Offset
- d) Immediate

41. Which method/s of representation of numbers occupies large amount of memory than others?

- a) Sign-magnitude
- b) 1's compliment
- c) 2's compliment
- d) 1's & 2's compliment

42. Which representation is most efficient to perform arithmetic operations on the numbers?

- a) Sign-magnitude
- b) 1's compliment
- c) 2'S compliment
- d) None of the mentioned

43. Which method of representation has two representations for '0'?

- a) Sign-magnitude
- b) 1's compliment
- c) 2's compliment
- d) None of the mentioned

44. When we perform subtraction on -7 and 1 the answer in 2's compliment form is _____

- a) 1010
- b) 1110
- c) 0110
- d) 1000

45. When we perform subtraction on -7 and -5 the answer in 2's compliment form is _____ a) 11110 b) 1110 c) 1010

d) 0010

46. The processor keeps track of the results of its operations using a flag called _____

- a) Conditional code flags
- b) Test output flags
- c) Type flags
- d) None of the mentioned

47. The register used to store the flags is called as _

- a) Flag register
- b) Status register
- c) Test register
- d) Log register

48. The Flag 'V' is set to 1 indicates that,

- a) The operation is valid
- b) The operation is validated
- c) The operation as resulted in an overflow
- d) None of the mentioned

49. The most efficient method followed by computers to multiply two unsigned numbers is _____

- a) Booth algorithm
- b) Bit pair recording of multipliers
- c) Restoring algorithm
- d) Non-restoring algorithm

50. When 1101 is used to divide 100010010 the remainder is _____

a) 101 b) 11 c) 0 d) 1