

1. Which one of the following is the example of a search engine?
(A) Internet explorer (B) BRNET
(C) Google (D) Opera
2. Which of the following is not a browser software?
(A) Mozilla firefox (B) Yahoo
(C) Internet explorer (D) Google chrome
3. Name the protocol used in internet communication :
(A) TCP/IP (B) Telnet
(C) OSI (D) Network protocol
4. Internet is a network which comes under :
(A) LAN (B) MAN
(C) WAN (D) Ethernet
5. In a web address `http://www.sample.gov.in`, `http` is the :
(A) Protocol (B) Top level domain
(C) URL (D) Web address
6. In class A IP address, the network address is denoted by :
(A) 1st and 2nd bytes (B) 1st byte
(C) 2nd byte (D) 1st, 2nd and 3rd bytes
7. Category 5 UTP have a data transfer speed of the range :
(A) upto 100 mbps (B) 100-1000 mbps
(C) 1000 mbps and higher (D) none of the above
8. In _____ network each node connected to the network can communicate with every other node.
(A) Client server (B) Peer-to peer connection
(C) Internet (D) Telnet

9. _____ are devices used to transfer packets of data between two or more networks that may or may not be similar.
- (A) Bridges (B) Routers
(C) Gateways (D) Transmitters
10. Which of the following is an unguided transmission media?
- (A) terrestrial microwave (B) twisted pair
(C) co-axial cable (D) optical fibre
11. Consider a noise free voice channel being used to transmit digital data via modem. Assume a bandwidth of 3100 Hz. Then the capacity of the channel is :
- (A) 3100 bps (B) 6200 bps
(C) 18000 bps (D) 12400 bps
12. Which of the following provides the fastest broadband internet connection?
- (A) DSL (B) Satellite
(C) Optical fibre (D) Cable
13. In the ISO OSI reference model the layer which deals with error correction and detection?
- (A) data link layer (B) physical layer
(C) network layer (D) session layer
14. The register which stores the memory, address of the next instruction to be executed by the CPU :
- (A) Program Counter (B) Instruction Register
(C) MAR (D) MBR
15. The binary equivalent of $(25.25)_{10}$ is :
- (A) 10011.10 (B) 11001.01
(C) 11011.11 (D) 10101.01
16. _____ is the basic element of memory registers.
- (A) Flip flops (B) Capacitors
(C) Transistors (D) Diode
17. Which of the following set are universal gates?
- (A) AND & XOR (B) NAND & NOR
(C) NAND & XOR (D) AND & OR

18. _____ is a combinational logic circuit.
- (A) register (B) flip-flop
(C) digital counter (D) encoder
19. The device used to convert analog signals to digital and vice versa :
- (A) rectifier (B) multiplexer
(C) inverter (D) modem
20. The base of octal number system is :
- (A) 16 (B) 10
(C) 8 (D) 2
21. _____ bytes = 1 kilobyte.
- (A) 1000 (B) 1024
(C) 100 (D) 1250
22. The gate which produces an output '1' for those input combinations that have odd number of 1's :
- (A) XOR (B) NOR
(C) NAND (D) AND
23. The idem potent law in Boolean algebra states that :
- (A) $0 + A = A$ and $0.A = 0$ (B) $1 + A = 1$ and $1.A = A$
(C) $A + A = A$ and $A.A = A$ (D) $A + A' = 1$ and $A.A' = 0$
24. _____ is not an OOP language.
- (A) C++ (B) JAVA
(C) Python (D) COBOL
25. _____ is a post test loop in C.
- (A) while loop (B) do...while
(C) for loop (D) repeat...until
26. The function in C to find x^y is :
- (A) pow (x, y) (B) x^y
(C) exp (x, y) (D) all of the above

27. _____ is the function in C to find the length of a string.
- (A) length () (B) string length ()
(C) strlen () (D) strlen ()
28. _____ is a user defined data type in C which can be used to store mixed data type elements :
- (A) array (B) class
(C) structure (D) enum
29. A string in C is terminated by :
- (A) '\0' (B) '#'
(C) '\#' (D) '\0'
30. In C a function that does not return any value is preceded by the keyword :
- (A) null (B) empty
(C) void (D) blank
31. The format specifier in C to read an integer number is :
- (A) %i (B) %d
(C) %n (D) %ld
32. The strcmp () function in C returns _____ if two strings are equal :
- (A) 0 (B) a +ve value
(C) a -ve value (D) none of the above
33. In C the header file stdio.h means :
- (A) Strategic Input/output (B) Structured Input/output
(C) Standard Input/output (D) Statical Input/output
34. Which of the following is not a derived datatype in C?
- (A) Arrays (B) Strings
(C) Structures (D) Double
35. The conditional operator in C is :
- (A) ?! (B) &&
(C) || (D) ?:

36. CD-ROM is an example of :
- (A) Secondary memory (B) Main memory
(C) Flash memory (D) Cache memory
37. Input/output devices together are called :
- (A) Secondary devices (B) Desktop devices
(C) Portable devices (D) Peripheral devices
38. USB is the abbreviation of :
- (A) Universal Serial Bus (B) Unit Synchronous Bus
(C) Unique Standard Bus (D) Unauthorized Static Bus
39. _____ is a primary storage device :
- (A) Pendrive (B) RAM
(C) DVD (D) Hard disk
40. SMPS stands for :
- (A) Synchronous Mode Power Segment
(B) Static Mode Power Switch
(C) Switched Mode Power Supply
(D) Secondary Memory Path Segment
41. A compiler comes under which of the following category?
- (A) Hardware (B) Software
(C) Firmware (D) Shareware
42. Linux operating system is a type of _____ software :
- (A) Open source (B) Licensed
(C) Commercial (D) Guaranteed
43. Picture files have the extension :
- (A) .doc (B) .gif
(C) .exe (D) .jpeg

44. In computers, information is represented most commonly using :
- (A) BCD (B) EBCDIC
(C) ASCII (D) ANSI
45. GPS stands for :
- (A) Global positioning System (B) Global Pathfinder System
(C) Graphical positioning System (D) None of the above
46. The decimal equivalent of the hexadecimal number 3A.2F is :
- (A) 78.917 (B) 58.1836
(C) 63.819 (D) 310.215
47. Which is a microprocessor among the following?
- (A) X80 (B) Y80
(C) Z80 (D) K80
48. The speed of a present day CPU is measured in :
- (A) KHz (B) GHz
(C) Mbps (D) Kbps
49. The main disadvantage of ICs are :
- (A) less efficient than transistors (B) larger in size
(C) inductor cannot be fabricated (D) replacement is difficult
50. Which of the following statements is true?
- (A) RAM and ROM are volatile memories
(B) RAM is volatile and ROM is non volatile
(C) Both RAM and ROM are non volatile
(D) RAM is non-volatile and ROM is volatile
51. Operating system is a software coming under _____ category.
- (A) customised software (B) system software
(C) packages (D) utilities

52. In open office _____ is the package used to create spreadsheets.
(A) open office writer (B) impress
(C) calc (D) excel
53. In a computer system _____ is the device which acts as an encoder.
(A) Keyboard (B) Monitor
(C) Processor (D) ALU
54. A logical statement that always assumes a true value is called :
(A) a truth table (B) tautology
(C) a Boolean statement (D) a predicate
55. Among the tools of SAD _____ contains the names of all data items in the system.
(A) Database (B) DFD
(C) Data dictionary (D) Decision table
56. _____ are compact and light printers which requires no ink cartridges and are ideal for mobile computing.
(A) thermal printers (B) plotters
(C) laser printers (D) dot-matrix printers
57. _____ is the main component used in second generation computers.
(A) IC (B) Transistors
(C) Vaccum tubes (D) VLS ICs
58. _____ is an internal command in DOS.
(A) XCOPY (B) FORMAT
(C) CLS (D) SYS
59. Which of the following is not a feature of MS- WORD?
(A) Mail merge
(B) Graphs and charts
(C) Spell check
(D) Ability to evaluate mathematical formulae

60. The extension of a word document in MS OFFICE 2007 is :
- (A) .word (B) .odt
(C) .txt (D) .docx
61. _____ requires refreshing circuits to retain the stored content.
- (A) DRAM (B) SRAM
(C) PROM (D) EPROM
62. Which of the following is a chipset package in motherboard of a PC?
- (A) DIP (B) PGA
(C) SIP (D) All of the above
63. The chipset which acts as the external memory and graphics controller hub in the motherboard of a PC :
- (A) North bridge (B) South bridge
(C) SEGA's system 16 chipset (D) NCR 53C9
64. The process performed by the firmware or software immediately after the electronic devices are powered on and protects the bootstrapped code from being interrupted by faulty hardware :
- (A) BIOS (B) Bootstrapping
(C) POST (D) None of the above
65. The factor which determines the general layout, size and feature placement on a motherboard is :
- (A) power factor (B) throughput
(C) size factor (D) form factor
66. The device for strengthening weak signals in digital communications :
- (A) Amplifier (B) Repeater
(C) Alternator (D) Decoder
67. A resistor with colour code red, red, red, orange, gold is a resistance value :
- (A) 22.2 k Ω (B) 22 k Ω
(C) 220 Ω (D) 2.2 k Ω

68. _____ are the inductors used in smoothing the pulsating current produced by rectification.
- (A) filter chokes (B) audio frequency chokes
(C) radio frequency chokes (D) rectifier chokes
69. An ideal current source is one whose internal resistance is :
- (A) very high (B) very low
(C) 0 (D) infinite
70. An ideal voltage source of 12 V provides a current of 120 mA to a load. If the load impedance is doubled, the new load current becomes :
- (A) 60 mA (B) 120 mA
(C) 240 mA (D) none of the above
71. The noticeable effect of a small increase in temperature in the common emitter transistor is :
- (A) the increase in ac current gain
(B) the decrease in ac current gain
(C) the increase in I_{CE0}
(D) the increase in output resistance
72. A Field Effect Transistor (FET) :
- (A) has 3 PN junctions
(B) incorporates a forward biased junction
(C) depends on the variation of magnetic field for its operation
(D) depends on variation of depletion layer width with reverse voltage for its operation
73. The 'CREATE' statement in SQL is a part of :
- (A) DCL (B) DML
(C) DDL (D) None of the above
74. The key that is chosen as a unique identifier for a table is :
- (A) alternate key (B) super key
(C) primary key (D) candidate key

75. _____ Data models permits many to many relationship among nodes.
 (A) Hierarchical (B) Network
 (C) Relational (D) Conceptual
76. _____ is the aggregate function used to find the total number of records in a table.
 (A) sum () (B) total ()
 (C) rec_count () (D) count ()
77. _____ is an SQL command to modify the structure of a table.
 (A) MODIFY STRUCTURE (B) ALTER STRUCTURE
 (C) MODIFY TABLE (D) ALTER TABLE
78. Which of the following is not a column constraint in SQL?
 (A) Check (B) Distinct
 (C) Unique (D) Default
79. _____ is the command used to delete a table.
 (A) DELETE table name (B) DELETE TABLE table name
 (C) DROP table name (D) DROP TABLE table name
80. Which of the following clause is not associated with the select command in SQL?
 (A) where (B) group by
 (C) order by (D) set
81. Who among the following is the First Woman Chief Minister of Gujrat?
 (A) Sushama Singh (B) Uma Bharathi
 (C) Anandi Ben (D) Sushama Swaraj
82. U.N.O. observes 2014 as :
 (A) Family farming year (B) Forest year
 (C) Year of pulses (D) Chemistry year
83. Which leader is known as 'Maadiba'?
 (A) Martin Luther King (B) Nelson Mandela
 (C) Abraham Lincoln (D) V.I. Lenin