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Maximum : 100 marks

Time : 1 hour and 15 minutes

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

A

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[P.T.O.]

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) $x^\wedge y$

    (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) strlength ( )   (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 preceeded 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) %Id

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

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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 catridges 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 kΩ (B)   22 kΩ

    (C)   220 Ω (D)   2.2 kΩ

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_{CEO}

    (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 choosen 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

84. Brahmapuram electric project of Kerala is in :

   (A) Idukky   (B) Palakkade

   (C) Ernakulam   (D) Kollam

85. First Mono rail system in India was inagurated in :

   (A) Delhi   (B) Poona

   (C) Madras   (D) Mumbai

86. Champions of Indian Football League in 2014 :

   (A) Bangaluru FC   (B) Churchill Brothers

   (C) Mohan Bagan   (D) Muhammedans club

87. 'Karmavipakam' is the literary contribution of :

   (A) E.M.S.   (B) V.T. Bhattathirippad

   (C) Premji   (D) Sahodaran Ayyapan

88. Wardha scheme of education is associates with :

   (A) Jawaharlal Nehru   (B) Rabindranath Tagore

   (C) Arabindo Ghosh   (D) Mahatma Gandhi

89. National statistical day is observes on :

   (A) July 27   (B) June 19

   (C) June 29   (D) June 26

90. 'Kalyanadayini Sabha' is a reform movement founded by :

   (A) Pandit K.P. Karuppan   (B) K.P. Vallon

   (C) Dr. Velukkutty Arayan   (D) Swami Agamananda

91. The revolt of 1857 began at :

   (A) Delhi   (B) Agra

   (C) Lucknow   (D) Meerut

92. Name the Indian Prime Minister who signed Simla agreement with Pakistan in 1972 :

   (A) Jawaharlal Nehru   (B) Indira Gandhi

   (C) Charan Singh   (D) Morarji Desai

93. Who is the Director of Malayalam Film 'Perariyathavar' which gets National Award in 2014?

    (A) Priyanandan   (B) Babu Thiruvalla

    (C) Manojkaana   (D) Dr. Biju

94. Chandipur missile test range locates in :

    (A) Andhra Pradesh   (B) Odisha

    (C) Bihar   (D) West Bengal

95. Who is the Cabinet Minister for minority affairs in the Government of Narendra Modi?

    (A) Piyush Goyal   (B) Jewel Oram

    (C) Najma Heptullah   (D) Narendra Singh Tomar

96. 'Aikya Muslim Sangham' is a reform movement founded by :

    (A) E. Moidu Moulavi   (B) Vakkam Khadar

    (C) Sheik Zainuddin   (D) Vakkam Abdul Khadar Moulavi

97. The winner of 'Ezhuthachan Puraskaram' in 2013 :

    (A) O.N.V. Kurup   (B) Dr. M.K. Sanu

    (C) Sugathakumari   (D) T. Padmanabhan

98. The longest river in South India :

    (A) Godavari   (B) Kaveri

    (C) Narmada   (D) Tapti

99. India's first nuclear blast was in :

    (A) 1974   (B) 1972

    (C) 1973   (D) 1971

100. 'Keralappazhama' is a historic work written by

    (A) Elamkulam Kunjan Pillai   (B) K.P. Padmanabha Menon

    (C) Hermen Gundert   (D) K.M. Panikkar