1. Internet is:
   (A) a local computer network
   (B) a world wide network of computers
   (C) an interconnected network of computers
   (D) a world wide interconnected network of computers which use a common protocol to communicate with one another

2. The Internet was originally a:
   (A) LAN in Russia
   (B) Code-cracking network during World War II by the U.S. Defense Department
   (C) A network cooperatively created by several large hardware and software companies
   (D) A small experimental research network called ARPANET
   - (D) is correct

3. Which of these types of Internet connections is typically the slowest?
   (A) Direct connection through T1 lines
   (B) Dial-up modem connections through phone lines
   (C) DSL connections through phone lines
   (D) Cable modem connections through cable TV lines
   - (B) is correct

4. IP addresses are converted to:
   (A) a binary string
   (B) alphanumeric string
   (C) a hierarchy of domain names
   (D) a hexadecimal string
   - (C) is correct

5. How long can a filename in Linux be?
   (A) 8 characters
   (B) 10 characters
   (C) 200 characters
   (D) 255 characters
   - (D) is correct

6. The hierarchy of a series of directories branching in a user system starts from:
   (A) \home
   (B) \root
   (C) /home
   (D) /root
   - (D) is correct

[Signature]
{P.T.O.}
7. Demand paged memory allocation:
   (A) allows the virtual address space to be independent of the physical memory
   (B) allows the virtual address space to be a multiple of the physical memory size
   (C) allows deadlock to be detected in paging schemes
   (D) is present only in Windows NT

8. The operating system manages ________
   (A) Memory   (B) Processor
   (C) Disk and I/O devices (D) All of the above

9. ________ is not the layer of the Operating system.
   (A) Kernel   (B) Shell
   (C) Application program (D) Critical Section

10. Which directory contains configuration files that stores system and application setting?
    (A) /etc  (B) /lib  (C) /usr  (D) /var

11. What default permissions do you need to open a directory?
    (A) RWX  (B) W  (C) R  (D) X

12. The command to print your path:
    (A) path-p  (B) uname-p  (C) cat/etc/path  (D) echo $PATH

13. The command to copy an entire directory structure eg from rag to rag. backup:
    (A) cp-r rag rag. backup  (B) cp-e rag rag. backup
    (C) cp-d rag rag. backup  (D) cp-s rag rag. backup

14. Every command in Linux is a:
    (A) text file  (B) stored  (C) variable  (D) executable program

15. The application name always appears in the:
    (A) Properties window  (B) Intermediate window
    (C) Code window  (D) Title bar

128/2012
16. The color of a button is:
   (A) One of its properties   (B) Not updatable
   (C) Defined in the project (D) Defined in the Intermediate window

17. Controls are:
   (A) Code   (B) Part of the menus   (C) Rules   (D) Objects

18. Visual Basic forms are identified by a:
   (A) ".frm" suffix   (B) ".mak" suffix   (C) ".for" suffix   (D) A special icon

19. The reference library of Visual Basic books is called:
   (A) MSDN Library   (B) Help Library   (C) Contents   (D) Topic pane

20. The location of the form on the desktop during execution is determined by:
   (A) Form Designer window   (B) Project Explorer window
   (C) Context Menu   (D) Form Layout window

21. Visual Basic projects are identified by a:
   (A) ".vbp" suffix   (B) ".mak" suffix   (C) ".vbg" suffix   (D) All the above

22. The Object Browser:
   (A) Displays the command buttons and textboxes, etc.
   (B) Shows frequently used shortcuts as objects
   (C) Is a Context Menu
   (D) Displays the object libraries and their combinations of data and code

23. The location of the form on the desktop during execution is determined by:
   (A) Form Designer window   (B) Project Explorer window
   (C) Context Menu   (D) Form Layout window

24. Code is:
   (A) Updateable in the form editor   (B) Instructions
   (C) Seldom used   (D) An object

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128/2012
{P.T.O.}
25. MICR stands for:
(A) Magnetic Ink Character Reader  (B) Magnetic Ink Code Reader
(C) Magnetic Ink Cases Reader     (D) None

26. Machine language is:
(A) Machine dependent     (B) Difficult to program
(C) Error prone           (D) All of above

27. Which was the computer conceived by Babbage?
(A) Analytical Engine      (B) Arithmetic Machine
(C) Collosus               (D) All of above

28. The process of starting a computer system by loading instructions from a secondary storage device into the computer memory is called:
(A) Duping    (B) Booting     (C) Padding   (D) CPS

29. Which language is directly understood by the computer without a translation program?
(A) Machine language     (B) Assembly language
(C) High level language   (D) None of above

30. WAN stands for:
(A) Wap Area Network (B) Wide Area Network
(C) Wide Array Net     (D) Wireless Area Network

31. The capacity of 3.5 inch floppy disk is:
(A) 1.40 MB    (B) 1.44 GB
(C) 1.40 GB    (D) 1.44 MB

32. MSI stands for:
(A) Medium Scale Integrated Circuits
(B) Medium System Integrated Circuits
(C) Medium Scale Intelligent Circuit
(D) Medium System Intelligent Circuit

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33. Which of the following is not an input device?
   (A) joystick          (B) light pen          (C) plotter          (D) touchpad

34. DVD is a:
   (A) optical memory device (B) semiconductor memory device
   (C) magnetic memory device (D) none of these

35. Complement of \(1 + X + Y + Z + 0\) is:
   (A) \(X' + Y + Z\)    (B) \((0 + X') (Y + Z)\)   (C) \(X' + YZ\)   (D) All the above

36. According to Boolean Theorems \(X + XY\) is equal to:
   (A) \(X\)          (B) \(Y\)          (C) \(1\)          (D) \(0\)

37. The dual of \(1 + X + Y + Z + 0\) is:
   (A) \((0 + X) (Y' + Z)\) (B) \(Y' + Z\) (C) \(X + Y'Z\) (D) none of these

38. How many times is a do while loop guaranteed to loop?
   (A) 0          (B) Infinitely          (C) 1          (D) Variable

39. Which of the following is a correct comment?
   (A) `*/Comments*/`   (B) `** Comment **`
   (C) `/* Comment */`   (D) `{ Comment }

40. Evaluate \((1 \&\& ! (0 || 1))\).
   (A) True          (B) False          (C) cannot be evaluated   (D) 1

41. What is the final value of \(x\) when the code \(\text{int } x; \text{for } (x=0; x<10; x++)\) \} is run?
   (A) 10          (B) 9          (C) 0          (D) 1

42. Database management systems are intended to:
   (A) eliminate data redundancy
   (B) establish relationship among records in different files
   (C) manage file access
   (D) maintain data integrity

A 7

128/2012
{P.T.O.}
43. A top-to-bottom relationship among the items in a database is established by a:
(A) hierarchical schema (B) network schema
(C) relational schema (D) all of the above

44. Which of the following is NOT valid in PL/SQL?
(A) Select ... into (B) Update (C) Create (D) Delete

45. The language that helps the user to access data is:
(A) DDL (B) DML (C) both (D) none

46. The logical design of a database is called:
(A) instance (B) scheme (C) relation (D) all of the above

47. Which of the following is not an aggregate function?
(A) count (B) sum (C) max (D) select

48. A relation visible to the user:
(A) scheme (B) instance (C) view (D) none of these

49. Which of the following is not an unary operations in relational algebra?
(A) select (B) project (C) rename (D) union

50. Equivalence partitioning is:
(A) a white-box testing method (B) a black-box testing method
(C) neither white-box nor black-box testing method (D) glass box testing method

51. Adaptive maintenance is:
(A) to improve the system in some way without changing its functionality
(B) the maintenance due to the changes in the environment
(C) the correction of undiscovered system errors
(D) none of these
52. Pick up one of the testing methods given below that is part of white-box testing:
(A) equivalence partitioning
(C) basis path testing  (B) boundary value analysis
(D) none of these

53. Which software development model incorporates risk management?
(A) waterfall model  (B) spiral model
(C) incremental model  (D) all of the above

54. Pick up the odd one out of the following:
(A) Software Design  (B) Software Testing
(C) Software Quality Assurance  (D) Requirements Analysis

55. Software requirements should not be:
(A) functional  (B) ambiguous  (C) consistent  (D) correct

56. The decision logic is expressed by:
(A) data flow diagram  (B) flow chart
(C) structure chart  (D) all of the above

57. Most common but least effective way of debugging is:
(A) brute force  (B) backtracking
(C) cause elimination  (D) none of these

58. Verification is to check:
(A) whether we are building the right product
(B) whether we are building the product right
(C) neither of the above
(D) all of above

59. A measure of the logical complexity of a program:
(A) FP  (B) LOC
(C) cyclomatic complexity  (D) none of these

9

126/2012

[P.T.O.]
60. Which of the following is not a UML diagram
(A) Use Case diagram (B) Class diagram
(C) Activity diagram (D) Data Flow diagram

61. Which of the following statements are true?
(A) The default constructor has a return type of void.
(B) The default constructor takes a parameter of void.
(C) The default constructor takes no parameters.
(D) The default constructor is not created if the class has any constructors of its own.

62. Which of the following are Java keywords?
(A) sizeof (B) main (C) transient (D) volatile

63. How many categories of operators are there in JAVA?
(A) 2 (B) 3 (C) 4 (D) 5

64. The default package that is implicitly called in JAVA program is:
(A) java.lang (B) java.io (C) java.* (D) None of these

65. Which method is used to return the smallest integer that is greater than or equal to the given double value?
(A) ceil() (B) floor() (C) abs() (D) None of these

66. How many line(s) of text can be used in JLabel?
(A) one (B) zero (C) two (D) none of these

67. Which operator is used to create an array in JAVA?
(A) Create (B) New (C) Both (D) None of these

68. RS-232 is a popular standard used for _________ communication:
(A) synchronous (B) asynchronous (C) both (A) and (B) (D) none of these

128/2012 10
69. The number of changes in the signal per second is called:
   (A) frame rate (B) bit rate (C) baud rate (D) none

70. What identifies a connection between a computer and a network:
   (A) socket (B) network (C) protocol (D) IP address

71. In OSI network architecture the dialog control and token management are responsibilities of:
   (A) session layer (B) network layer (C) transport layer (D) data link layer

72. Which of the following performs modulation and demodulation?
   (A) fibre optics (B) satellite (C) coaxial cable (D) modem

73. Which of the following is not a transmission media?
   (A) telephone lines (B) coaxial cables (C) modem (D) microwave systems

74. A protocol is a set of rules governing a sequence of events. It can be a:
   (A) hardware (B) software (C) both (D) none of these

75. X.25 is an example of ________ network:
   (A) circuit switched (B) packet switched (C) both of these (D) none of these

76. ________ allows LAN users to share computer programs and data.
   (A) Communication server (B) Print server (C) File server (D) All of these

77. What is the central device in star topology?
   (A) STP server (B) Hub/sitch (C) PDC (D) Router

78. ISDN is an example of ________ network:
   (A) Circuit switched (B) Packet switched (C) Both (D) None of these

A 11 128/2012 [P.T.O.]
79. Which layer decides which physical pathway the data should take?
   (A) Application (B) Network (C) Physical (D) Data link layer

80. CFile directly supports the following type of input/output:
   (A) Buffered (B) Unbuffered (C) Both buffered and unbuffered (D) None of above

81. File input/output in text mode can be done using:
   (A) CFile (B) CStdioFile (C) CMemFile (D) CArchive

82. In document/view architecture which object translates mouse and keyboard messages:
   (A) CWinApp (B) CFrameWnd (C) The class you derive from CFrameWnd (D) CView

83. In a MDI application how many menu resources are there?
   (A) At least One (B) At least Two (C) At the most One (D) At the most Two

84. Which class represents connection to a data source?
   (A) CRecordSet (B) CDatabase (C) CConnection (D) CRecordView

85. Which class is used to have more than one view of a single document in an SDI application?
   (A) CFrameWnd (B) CView (C) CSplitterWnd (D) CWind

86. Which of the following class is specially meant for text input and output?
   (A) CFile (B) MemFile (C) CSocketFile (D) CStdioFile

87. Which type of dialog box overlaps all other windows, including that of other applications when displayed?
   (A) System modal (B) Modal (C) Modeless (D) All of above

88. InitInstance is a member of which class:
   (A) CWinThread (B) CWinApp (C) CWind (D) CObject
89. What file is read by ODBC to load drivers?
(A) ODBC.INI  (B) ODBC.DLL
(C) ODBCDRV.INI  (D) None of the above

90. EXP command is used:
(A) To take Backup of the Oracle Database
(B) To import data from the exported dump file
(C) To create Rollback segments
(D) None of the above

91. Sequence of events takes place while starting a Database is:
(A) Database opened, File mounted, Instance started
(B) Instance started, Database mounted and Database opened
(C) Database opened, Instance started and file mounted
(D) Files mounted, Instance started and Database opened

92. What are the different file extensions that are created by Oracle Reports?
(A) RDF file and .RPX file  (B) RDX file and .RDF file
(C) REP file and .RDF file  (D) None of the above

93. The gate which is called a universal gate:
(A) AND  (B) OR  (C) NAND  (D) NOR

94. The flip flop which works as a toggle switch:
(A) J-K  (B) D  (C) T  (D) (B) and (C)

95. The ROM into which a user can write once but read many times:
(A) PROM  (B) EEPROM  (C) EPROM  (D) Flash Memory

96. The hexadecimal equivalent of 1208 is:
(A) 6ED  (B) 2B6C  (C) 5A6  (D) 4B8

A
97. The number of bits that a computer can process at a time is called:
(A) byte (B) bit (C) word length (D) MIPS

98. The octal equivalent of hexadecimal 3D1 is:
(A) 5367 (B) 1736 (C) 5634 (D) none of these

99. The octal equivalent of decimal 62 is:
(A) 76 (B) 84 (C) 69 (D) 92

100. URL stands for:
(A) Universal reform locator (B) Universal report locator
(C) Uniform resource locator (D) Uniform resort locator

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