

5/2012

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. Which of the following are elements of information system?
(A) People (B) Procedures
(C) Data (D) All of the above
2. Data that have been put into meaningful and useful context in communication to a recipient who uses it to make decisions is called :
(A) Data (B) Information
(C) Information procession (D) Data processing
3. Which of the following is/are key attributes of information?
(A) Accuracy (B) Timeliness
(C) Relevancy (D) All of these
4. DAT stands for :
(A) Direct Adaptive Terminal (B) Digital Audio Technology
(C) Direct Audio Technology (D) Digital Audio Tape
5. What is the expansion of WORM?
(A) Write On Redundant Material (B) Write Optical Read Magnetic
(C) Write Once Read Many (D) None of the above
6. A collection of field names and their corresponding data type constitutes a :
(A) Record type definition (B) Inter block gaps
(C) Data type definition (D) Fixed length record
7. What is a file?
(A) Collection of bytes stored as an individual entity
(B) Any thing in which information can be stored
(C) Attribute of an entity
(D) All of the above
8. What is double buffering?
(A) Serial Data processing and data transfer
(B) Parallel data processing and data transfer
(C) Data transfer
(D) None of the above

9. What is hashing?
- (A) Method to determine a key location
 - (B) Method to determine the physical location of a record
 - (C) Method to determine the physical location of a file.
 - (D) Method to Sequentially access from a file
10. _____ is a technique for physically arranging records of a file on secondary storage devices.
- (A) Data storage
 - (B) Indexing
 - (C) Hashing
 - (D) File organization
11. Which one is not a factor to be considered when choosing a file organization?
- (A) Speed of processing data
 - (B) Speed of data retrieval
 - (C) Speed of update operation
 - (D) None of the above
12. Basic file organization methods are :
- (A) Sequential
 - (B) Indexed
 - (C) Hashed
 - (D) All of the above
13. What is called fanout of the node?
- (A) Number of datum
 - (B) Number of nodes originating
 - (C) Number of pointers in a node
 - (D) None of the above
14. B in a B⁺-tree stands for :
- (A) Binary
 - (B) Balanced
 - (C) Byte
 - (D) Best
15. Index files and data dictionaries store administrative information known as :
- (A) Record
 - (B) Table
 - (C) Metadata
 - (D) None of these
16. What is the expansion of SQL?
- (A) Scalable Query Language
 - (B) Structured Query Language
 - (C) Standard Query Language
 - (D) None of the above
17. _____ is not a logical data base structure.
- (A) Tree
 - (B) Relational
 - (C) Network
 - (D) Chain

18. The main objective of Database Management System is to :
- (A) Eliminate data redundancy .
 - (B) Establish a relationship among records in different files
 - (C) Manage file access
 - (D) All of the above
19. _____ is not a characteristic of a relational database model.
- (A) Table
 - (B) Tree like structure
 - (C) Complex logical relation
 - (D) None of these
20. Two files used during the operation of DBMS are :
- (A) Query language and utilities
 - (B) Data manipulation language and query language .
 - (C) Data dictionary and transaction log
 - (D) Data dictionary and query language
21. Which approach can be used for standardizing storage of data?
- (A) MIS
 - (B) Structured programming
 - (C) CODASYL specification
 - (D) None of these
22. Which normal form is considered adequate for normal relational database design?
- (A) 2 NF
 - (B) 5 NF
 - (C) 4 NF
 - (D) 3 NF
23. When all the columns in a table describe and depend upon the primary key, the table is said to satisfy which normal form?
- (A) 2 NF
 - (B) 5 NF
 - (C) 4 NF
 - (D) 3 NF
24. Which key is used to describe the relationship between data from different tables?
- (A) Primary key
 - (B) Foreign key
 - (C) Public key
 - (D) Private key
25. Which of the following is false?
- (A) $A \cup B = B \cup A$
 - (B) $A \cap (B \cap C) = (A \cap B) \cap C$
 - (C) $A - B = B - A$
 - (D) None of these.

26. What will be the number of rows and columns of CARTESAN PRODUCT if the participating relations have 5 rows, 2 columns and 10 rows, 2 columns respectively?
- (A) 5 rows, 2 columns (B) 10 rows, 2 columns
(C) 15 rows, 4 columns (D) 50 rows, 4 columns
27. Select the one which is not a relational algebraic operation developed specifically for the relational database :
- (A) SELECT (B) UNION
(C) JOIN (D) PROJECT
28. Which one is not an exact numeric data type?
- (A) NUMERIC (B) DECIMAL
(C) FLOAT (D) INTEGER.
29. Which one of the following is not a bit character string?
- (A) B'1' (B) B'0'
(C) X'A5' (D) None of these
30. Which of the following is not an approximate numeric data type?
- (A) + 99.99 (B) 99.99E9
(C) 0.99E9 (D) None of these
31. Which of the following is a command used to delete a table?
- (A) DROP TABLE (B) DELETE TABLE
(C) DROP VIEW (D) DELETE VIEW
32. Which structures provide fast access to the rows of a table based on the values of one or more columns?
- (A) Table (B) View
(C) Index (D) None of these
33. It is not legal to use NULL in one of the following situation in an SQL system :
- (A) It is not possible to specify NULL explicitly in a select item.
(B) It is not possible to specify NULL in a default specification within a column or Domain definition.
(C) It is not possible to specify NULL in a table update
(D) None of the above

34. Which of the following is a legal expression?
- (A) SELECT NULL FROM STUDENT;
 - (B) SELECT NAME FROM STUDENT;
 - (C) SELECT NAME FROM STUDENT WHERE MARK = NULL;
 - (D) None of the above
35. Which of the following is not true in the case of a subquery?
- (A) A subquery must produce a single column of data as its result
 - (B) The ORDER BY clause can be specified in a subquery
 - (C) A subquery cannot be UNION
 - (D) None of the above
36. Aggregate Functions of SQL are also known as _____ functions.
- (A) SELECT
 - (B) COLUMN.
 - (C) ROW
 - (D) None of the above
37. _____ aggregate function is used to count number of rows of the query result in SQL.
- (A) COUNT ()
 - (B) COUNT(*)
 - (C) MIN
 - (D) None of the above
38. _____ functions greatly enhance the power of SQL statements.
- (A) Common
 - (B) Aggregate .
 - (C) Subqueries
 - (D) None of the above
39. If the _____ clause is omitted in a DELETE statement, then all the rows in the table will be deleted.
- (A) WHERE .
 - (B) FROM
 - (C) SELECT
 - (D) None of the above
40. Which of the following is not a CURSOR operation?
- (A) DECLARE
 - (B) OPEN
 - (C) FETCH
 - (D) None of the above
41. API stands for :
- (A) Application Platform Independence
 - (B) Application Program Interface .
 - (C) Average Performance Index
 - (D) None of the above

42. Which of the following does not use API?
- (A) MS SQL Server (B) Sybase
(C) ODBC (D) DB2
43. What is the expansion of SQLCA?
- (A) SQL Command Activation (B) SQL Communication Application
(C) SQL Communication Area (D) None of the above.
44. Which of the following command is not used in SQL descriptor Area?
- (A) ALLOCATE DESCRIPTOR (B) GET DESCRIPTOR
(C) SET DESCRIPTOR (D) None of the above
45. QBE stands for :
- (A) Query-By-Example (B) Query-By-Entity
(C) Query-By-Equal (D) None of the above
46. The syntax of the query is checked by _____ during query processing.
- (A) Compiler (B) Parser ✓
(C) Syntax checker (D) None of the above
47. Which of the following is not a query Processing method?
- (A) Materialization (B) Tunneling ,
(C) Pipelining (D) None of the above
48. A user's identity is checked using :
- (A) Authorization (B) Access control
(C) Authentication (D) All of the above
49. Which of the following is not a valid a database user?
- (A) DBA (B) Security officer
(C) Network administration (D) None of the above
50. DBMS stands for :
- (A) Data Base Manipulation System
(B) Data Base Management System
(C) Data Base Modification System
(D) None of the above

51. _____ is a program that initializes and tests each component of the motherboard every time it starts up to make sure everything is ready to run.
- (A) BIOS (B) POST
(C) ROM (D) Setup program
52. DMA stands for :
- (A) Direct Mode Access (B) Direct method Access
(C) Direct Memory Access (D) None of these
53. The collection of small programs that enable the system to communicate with h/w device during boot process :
- (A) BIOS (B) POST
(C) Operating system (D) Set up program
54. SCSI stands for :
- (A) Small Computer System Interface
(B) Small Computer Security Indicator
(C) Small Component Security Interface
(D) None of the above.
55. _____ is the brain of the computer.
- (A) CPU (B) Memory
(C) Control unit (D) None of the above
56. Which one of the following is a volatile memory?
- (A) ROM (B) HDD
(C) RAM (D) None of the above
57. A measurement of the overall efficiency of a magnetic storage device is its :
- (A) Spatial density (B) Areal density
(C) Seek time (D) Linear density
58. Which memory system is not used as a mass memory?
- (A) Semiconductor memory (B) Magnetic tape
(C) Magnetic disk (D) Magnetic drum

59. _____ memory has the shortest access time.
- (A) Cache memory (B) Magnetic bubble
(C) Magnetic core memory (D) RAM
60. _____ is a program used to join several object files into a large object file.
- (A) Assembler (B) Linker
(C) Locator (D) Editor
61. Which of the following is an Interrupt?
- (A) DIVIDE-BY-ZERO (B) OVERFLOW
(C) BREAKPOINT (D) All of the above
62. ISR stands for :
- (A) Interrupt Secure Routine (B) Interrupt Service Register
(C) Interrupt Service Routine (D) None of the above
63. BCD stands for :
- (A) Binary Coded Decimal (B) Binary Calculated Decimal
(C) Binary Coded Digits (D) None of the above
64. Which of the following is a function of ALU?
- (A) Fetch data from memory into a register
(B) Store data from a register into memory
(C) Perform an arithmetic or logical function on the data in a register
(D) None of the above
65. Which of the following is a third generation CPU?
- (A) 80286 (B) 8086
(C) 8088 (D) 386 DX
66. ESD stands for :
- (A) Electrostatic Display (B) Electrostatic Design
(C) Electrostatic Discharge (D) None of the above
67. Which one is significantly faster - SRAM or DRAM?
- (A) SRAM (B) DRAM
(C) Both (D) None of the above

68. What is the function of control unit in the CPU?
- (A) To transfer data to memory (B) To perform logic operations
(C) To store instructions (D) To decode program instructions
69. Which command is used to reboot the computer?
- (A) Ctrl + Alt + Shift (B) Ctrl + Alt + Tab
(C) Ctrl + Alt + Del (D) None of the above
70. Which of the following is not an example of an Operating system?
- (A) BSD Unix (B) Solaris
(C) Microsoft Office XP (D) Red Hat Linux
71. I/O port address are used to :
- (A) Send commands to the device (B) Get device information
(C) Send and receive data (D) All of the above
72. Amount of time the hard disk drive takes to move the heads from one track to another is called :
- (A) Access time (B) Seek time
(C) Latency (D) None of the above
73. Never use an UPS with a _____ wave output.
- (A) Square (B) Sine
(C) Triangular (D) None of the above
74. USB stands for :
- (A) Universal Serial Battery (B) Universal Secure Bus
(C) Universal Serial Bus (D) None of the above
75. Which of the following is not a mechanical keyboard switch?
- (A) Foam Element Switches (B) Rubber-Dome Switches
(C) Capacitive Switches (D) Membrane Switches
76. What is a trackball?
- (A) A mouse which tracks the hand movement
(B) An up-side down mouse with a larger ball
(C) A mouse which tracks the ball movement
(D) None of the above

77. Which of the following is not a type of monitor?
- (A) CRT (B) LCD
(C) TFT (D) None of the above
78. Which of the following is not a Page Description Language?
- (A) PDF (B) Postscript
(C) PCL (D) All of the above
79. A Half Adder circuit is used to find :
- (A) Half of a NAND (B) Half of sum of two bits
(C) Sum of two bits (D) None of the above
80. _____ carries information between processor and peripherals.
- (A) Control bus (B) Address bus
(C) Data bus (D) None of the above
81. Which of the following is not a bus standard?
- (A) ISA (B) MCA
(C) EISA (D) EESA
82. ISDN stands for :
- (A) Integrated source decimal number
(B) Integrated service digital network
(C) Integrated secure digital network
(D) None of the above
83. Which of the following is not considered in a Portable PC design?
- (A) Size (B) Weight
(C) Power consumption (D) All of the above
84. What is the expansion for RAID?
- (A) Read Array In Disks
(B) Redundant Array Independent Disks
(C) Redundant Array In Disks
(D) None of the above

85. Which of the following is not a technique used in RAID?
- (A) Disk striping (B) Disk mirroring
(C) Disk duplexing (D) Disk spread
86. _____ is the physical layout of the motherboard.
- (A) Form factor (B) Bus factor
(C) Motherboard factor (D) None of the above
87. The hardware that comprises SCSI bus consists basically of a :
- (A) Actual device (B) Host adapter
(C) Cables (D) All of the above
88. Which among the following can be used to evaluate a SCSI hardware?
- (A) Cables and connectors (B) Performance level
(C) Both (A) and (B) (D) None of the above
89. The term Modem is derived from :
- (A) Modulator (B) Demodulator
(C) Modulator/Demodulator (D) None of the above
90. Which one of the following is not a layer of the OSI reference model?
- (A) Data link layer (B) Application layer
(C) Session layer (D) Ring layer
91. _____ is a data link layer device that connects two LAN cable segments together :
- (A) Router (B) Bridge
(C) Switch (D) None of the above
92. _____ is used to identify the application layer protocol that generates the data in the packet.
- (A) Port number (B) IP address
(C) Socket (D) None of the above
93. Which one of the following is not a Printer?
- (A) Laser printer (B) Line printer
(C) Inkjet printer (D) None of the above

94. Multiprogramming refers to :
- (A) Having several programs in RAM at the same time
 - (B) Having several programs in HDD at the same time
 - (C) Having programs in multiple language
 - (D) None of the above
95. FAT stands for :
- (A) File Activation Table
 - (B) File Allocation Table
 - (C) File Active table
 - (D) None of the above
96. The decimal number 127 may be represented by :
- (A) 1111 1111
 - (B) 1000 0000
 - (C) 0111 1111
 - (D) None of the above
97. _____ is an interface between the user and the computer :
- (A) CPU
 - (B) Operating system
 - (C) Memory
 - (D) None of the above
98. Whenever you install a peripheral device you should also install a :
- (A) Port
 - (B) Password
 - (C) Driver
 - (D) Server
99. Which of the following is not an output device?
- (A) Flat screen
 - (B) Touch screen
 - (C) Scanner
 - (D) Printer
100. EPROM stands for :
- (A) Energy programmable ROM
 - (B) Every page ROM
 - (C) Erasable programmable ROM
 - (D) None of the above

PROVISIONAL ANSWER KEY
Question Paper Code: 5/2012

COMPUTER OPERATOR
 FACTORIES AND BOILERS

Date of Test: 12/01/2012

Q.	Qn Booklet Alphacode			
No.	A	B	C	D
1	D	A	D	B
2	B	A	D	D
3	D	B	C	A
4	D	B	B	B
5	C	D	C	C
6	A	D	B	B
7	A	D	D	D
8	B	C	A	D
9	B	B	B	B
10	D	C	C	C
11	D	B	B	D
12	D	D	D	B
13	C	A	D	C
14	B	B	B	D
15	C	C	C	A
16	B	B	D	A
17	D	D	B	C
18	A	D	C	A
19	B	B	D	B
20	C	C	A	B
21	B	D	A	B
22	D	B	C	B
23	D	C	A	B
24	B	D	B	A
25	C	A	B	D
26	D	A	B	B
27	B	C	B	D
28	C	A	B	C
29	D	B	A	D
30	A	B	D	A
31	A	B	B	B
32	C	B	D	D
33	A	B	C	C
34	B	A	D	D
35	B	D	A	B
36	B	B	B	D
37	B	D	D	B
38	B	C	C	D
39	A	D	D	D
40	D	A	B	C
41	B	B	D	A
42	D	D	B	A
43	C	C	D	B
44	D	D	D	B
45	A	B	C	D
46	B	D	A	D
47	D	B	A	D
48	C	D	B	C
49	D	D	B	B
50	B	C	D	C

Q.	Qn Booklet Alphacode			
No.	A	B	C	D
51	B	C	D	C
52	C	B	C	A
53	A	A	A	D
54	A	A	C	C
55	A	B	D	C
56	C	D	C	D
57	B	C	A	B
58	A	A	D	A
59	A	C	C	C
60	B	D	C	C
61	D	C	D	B
62	C	A	B	D
63	A	D	A	A
64	C	C	C	C
65	D	C	C	C
66	C	D	B	D
67	A	B	D	B
68	D	A	A	D
69	C	C	C	B
70	C	C	C	D
71	D	B	D	A
72	B	D	B	D
73	A	A	D	C
74	C	C	B	C
75	C	C	D	D
76	B	D	A	B
77	D	B	D	A
78	A	D	C	D
79	C	B	C	A
80	C	D	D	B
81	D	A	B	A
82	B	D	A	B
83	D	C	D	C
84	B	C	A	B
85	D	D	B	C
86	A	B	A	B
87	D	A	B	C
88	C	D	C	A
89	C	A	B	A
90	D	B	C	A
91	B	A	B	C
92	A	B	C	B
93	D	C	A	A
94	A	B	A	A
95	B	C	A	B
96	A	B	C	D
97	B	C	B	C
98	C	A	A	A
99	B	A	A	C
100	C	A	B	D