Sl. No.:

QUESTION BOOKLET

Booklet Id.: JM/01/B/150

| Roll No. | | | |
|----------|--|--|--|
| | | | |

Time Allowed: 2 hrs 30 mins

Total Marks: 150

DO NOT OPEN THE QUESTION BOOKLET UNTIL YOU ARE ASKED TO DO SO

Read the following instructions carefully before you begin to answer the questions.

INSTRUCTIONS TO CANDIDATE

- 1) You are required to write your Roll Number in the prescribed place provided at the top of this Ouestion Booklet and the OMR Answer Sheet.
- 2) You are required to mention the Question Booklet Id. as mentioned above in your OMR Answer Sheet.
- 3) Please ensure that the Question Booklet has the required number of pages immediately after opening the same. In case there is any shortage of any page(s), please report the same to the invigilator.
- 4) This Question Booklet contains 100 multiple choice questions to be answered in a separate OMR Answer Sheet by using **Blue/Black ball pen** only. Do not use **Ink/Gel pen**.
 - ➤ All questions are compulsory and carry equal marks.
 - ➤ There is no negative marking for wrong answers.
 - **Directions for answering the questions:**

Each question is followed by four alternative suggested answers. You are required to select the correct answer and darken the appropriate circle of a, b, c and d by Blue/ Black ball pen in such a manner that the circle is completely darkened.

Example: Question No.63

Given below are four odd words, three are alike in some way and one is different. Find the odd word:

(a) Ganga

(b) Brahmaputra

(c) Jamuna

(d) Himalaya

Here the correct answer is Himalaya, i.e., (d). So, in the OMR Answer Sheet the darkened circle should be marked as

63. (a) (b) (c)

- 5) In any case, if more than one circle against each question is darkened, that particular question would be treated as invalid and will not be evaluated.
 - At the end of the examination, the candidate should ensure that he/ she submits the OMR Answer Sheet and the Question Booklet to the invigilator before leaving the examination hall/ room
- 6) This Question Booklet cannot be carried with you. You have to submit this along with your OMR Answer Sheet to the invigilator.
- 7) No rough work is to be done on the OMR Answer Sheet. You can do the rough work on the space provided on the Question Booklet.
- 8) Use and possession of mobile phones and electronic gadgets/calculators are strictly prohibited inside examination hall/room.
- 9) Non compliance with any of the above instructions will make a candidate liable to action/ penalty as may be deemed fit.

Space for Rough Work

Choose the correct option for each question and darken the circle against the option in the OMR Answer Sheet.

| 1. F | Four jobs to be executed on a single processor system arrives at a time 0+ in order A, B, C, D their CPU burst time represents are 4, 1, 8, 1 time units respectively. The completion time of A in Round Robin scheduling algorithm with time slice of 1 time unit is | | | | | |
|------|---|----------------------------|--------------------------|----------------------|--|--|
| | a) 10 | b) 8 | c) 9 | d) 4 | | |
| 2. ٦ | To expedite the process of | of page table access OS ι | ıse | | | |
| | a) Main memory | | b) TLB | | | |
| | c) Virtual memory | | d) Magnetic memory | | | |
| 3. \ | Which of the following pa | age replacement algorith | • | e? | | |
| | a) FIFO | | b) LRU | | | |
| | c) Optimal page replace | ement | d) None of these | | | |
| 4. [| 4. Memory compaction is a solution for | | | | | |
| | a) Internal fragmentati | on | b) External fragmentati | on | | |
| | c) Buddy system | | d) All of these | | | |
| 5. \ | Where does the swap spa | | | | | |
| | a) RAM | b) Disk | c) ROM | d) On chip cache | | |
| 6. I | n the context of operatir processes | ng systems, which term v | would you not associate | with scheduling of | | |
| | a) Round Robin | b) Preemptive | c) Waiting queues | d) interruptible | | |
| 7. \ | Which of the following de | esign is both software ar | nd hardware independer | nt ? | | |
| | a) Logical | b) Physical | c) Conceptual | d) None of the above | | |
| 8. / | A directed graph which o | detects a deadlock is call | ed | | | |
| | a) Cyclic graph | | b) wait for graph | | | |
| | c) deadlock graph | | d) deadlock detection g | raph | | |
| 9. ۱ | Which of the following m | odel is called meta mod | el | | | |
| | a) Prototype model | | b) water fall model | | | |
| | c) Iterative water fall mo | odel | d) spiral model | | | |
| 10. | Which of the following s | software testing method | requires programming I | knowledge | | |
| | a)black box testing | b) white box testing | c) Both a) and b) | d) none of these | | |
| 11. | In round robin schedulir | ng as time quantum is in | creased, the average tur | | | |
| | a) increases | b) decreases | c) varies irregularly | d) remain constant | | |

| 12. | The coupling between of 1. Content coupling | different module | 2. Com | mon coupling | zed as follows 3. Control coupling | |
|-------|--|--------------------------------------|-----------|---|-------------------------------------|------|
| | 4. stamp coupling Coupling between mod follows | lules can be rank | | coupling e order of least de | sirable to most desirable | e as |
| | | b) 5, 4, 3, 2, 1 | | c) 1, 2, 4, 3, 5 | d) 4, 2, 5, 3, 1 | |
| 13. | The IP address of a pacl | ket is normally a | nalyzed l | by the | | |
| | a) switch | b) Hub | | c) Router | d) Modem | |
| 14. | A network that can funda)Ring network | ction without a s b) Star network | | a c) Bus network | d) All of the abov | e'e |
| 15. | The following is not ar | Internet search | engine | | | |
| | a) Google | b) Excite | | c) Webcrwler | d) Scientra ans | |
| 16. | In Excel, the simplest w a) by menu commands c) by mouse | - | from on | ne location to anot b) by the drag an d) by short cut m | d drop method | |
| 17. | The basic features of war a) Search and display var b) send and receive e-rac) switch over between d) All of the above | arious websites mail messeges | es Web p | ages are uniquely | defined using | |
| 18. | Which is the default scr | ripting language | in ASP ? | | | |
| | a) Javascript | b) Perl | | c) EcmaScript | d) VBscript | |
| 19. | SSL is a | | | | | |
| | a) Scripting language | b) Browser | | c) Secure connec | ction d) Authoring tool | ı |
| 20. | Which one is not a size | measure of soft | ware ? | | | |
| | a) LOC | | | b) Function point | | |
| | c) Halstead's Program | length | | d) Cyclomatic cor | mplexity | |
| 21. | Regression testing is do a) Software Developm c) Feasibility study | | | b) Maintenance pd) None of these | phase | |
| 22. | Consider the following Int model(int x, int y) while (x!=y) { | | 2 | | | |
| If(> | (> y) then | | | | | |
| olca | x=x-y; | | | | | |
| } | e y=y-x; | | | | | |
| ret | urn x; | | | | | |
| } | \A/batia a gualamatic ca | - داده - حال ما محمد | a la a | د ماریام | | |
| | What is a cyclomatic coa 1 | b) 2 | above m | c) 3 | d) 4 | |
| | ~, _ | ~ / - | | ·, · | ∽, . | |

| 23. Which of the following | is not software reliabilit | y matrics | |
|---|---|---------------------------|----------------------|
| a) Mean time betwee | en failure | b) Availability | |
| c) Throughput | | d) Probability of failure | e on Demand |
| 24. Which of the following | g is not a phase in Compi | ler? | |
| a) Lexical Analyzer | | b) Code generation | |
| c) symantic Analyz | er | d) None of these | |
| 25. The world wide web ir | ntegrates which of the fo | llowing | |
| a) E-mail, Telnet, Use | enet | b) Sound and movies f | iles |
| c) a and b | | d) All internet commun | nication tools |
| 26. Pick the machine indep | pendent phase(s) of com | piler. | |
| a) Syntax analysis | | b) Lexical analysis | |
| c) Intermediate cod | le generation | d) All of the above | |
| 27. Which of the following | is NOT a key component | t of object oriented prog | ramming? |
| a) Inheritance | b) Encapsulation | c) Polymorphism | d) Parallelism |
| 28. What is the output of t void main() | he following program? | | |
| static int value float total; total = value + cout << total ; } | | | |
| a) 7.5 | b) 7.0 | c) 5.0 | d) 7 |
| 29. The Java compiler tran | islates source code into | | |
| a) machine code. | b) Assembly code. | c) Byte code. | d) JVM code |
| 30. Single inheritance, Mu a) Modularity | ltiple inheritance, and Ag b) Typing | | d) None of the above |
| 31. How big is the convent | ional memory in a PC? | | |
| a) 640 K | b) 340 K | c) 540 K | d) None of these |
| 32. The maximum zoom in a) 400% | n excel is b) 1000% | c) 500% | d) 200% |
| 33. The short cut key used a) F3 | to rename file/folder is b) F4 | c) F2 | d) F1 |
| 34. The default column wide a) 12.75 | dth of an excel cell is b) 500 | c) 200 | d) 8.43 |
| 35. How many ways you ca | an save a document in M b) 2 | S-word c) 4 | d) 5 |

| 36. | Which of the following | is not a type of firewall ? | ? | |
|-----|---------------------------|--|----------------------------|-----------------------|
| a |) Packet-filtering firewa | II | b) Proxy firewall | |
| С | Stageful Inspection | | d) None of these | |
| 37. | How long is an IPV6 ad | dress | | |
| |) 32 bits | b) 48 bits | c) 128 bits | d) 128 bytes |
| 38. | Relational Algebra is | | | |
| а |) Data definition langua | ge | b) Meta language | |
| С | Procedural language | | d) Non procedural langu | uage |
| 39. | The data model which | describes how the data i | s actually stored is | |
| a |) internal model | | b) External model | |
| С |) Logical model | | d) None of these | |
| 40. | An association of sever | al entities in an Entity Re | elation model is called | |
| |) Tuple | b) Relationship | c) record | d) Field |
| 41. | Which normal form is o | considered adequate for | relational database desig | n ? |
| ā | a) 2 NF | b) 3 NF | c) 4 NF | d) BCNF |
| 42. | Bottom up parser gene | rates | | |
| |) right most derivation | in reverse | b) right most derivation | |
| С | left most derivation | | d) left most derivation i | n reverse |
| 43. | | erloading, operator funct | tion must be | |
| | | ic member functions | | |
| | | static member functior nd Functions | ns . | |
| | a) Only 2 | na Functions | b) Only 1, 3 | |
| | c) Only 2 , 3 | | d) All 1, 2, 3 | |
| 44. | Which of the following | is false with respect to in | nheritance? | |
| | _ | - | lic members of the base of | class become private |
| | members of the derive | | | |
| | | | ic members of the base cl | ass becomes public |
| | members of derived cl | | ivate member of base cla | ss hecomes private |
| | member of derived cla | | ivate member of base cia | 33 Decomes private |
| | | | cted members of base cla | ass becomes protected |
| | members of derived cl | | | |
| 45. | • | oblem can be solved usin | | |
| | a) Semaphore | b) Monitor | c) event counters | d) All of the above |
| 46. | Standard interface use | ed to send commands be | tween computers and mu | usical instruments is |
| | a) Hypermedia | b) RealAudio | c) AAC | d) MIDI |
| 47. | The creation of motion | from still pictures is call | ed | |
| | a) Sampling | b) 3-D modeling | c) transition | d) Animation |

| 48. | What is the process that over the Internet at a fa | | es so they | y can be store | ed in less sp | ace and transmitted | |
|-----|--|-------------------|-------------|---------------------------|----------------|-------------------------|---|
| | a) Data downloading | | | b) Data com | pression | | |
| | c) Digitization | | | d) Defragme | - | | |
| 49. | Software that stores line | es and shapes r | ather tha | n individual | pixels is kno | own as | |
| | a) Vector graphics softv | vare | | b) raster gra | phics softw | are | |
| | c) bit-mapped graphics | software | | d) resolutio | n software | | |
| 50. | A compiler running on c | computers with | small me | mory would | normally be | 9 | |
| | a) a multipass compiler | r | | b) single pas | ss compiler | | |
| | c) a compiler with less | • | | d) None of t | hese | | |
| 51. | Input of a D flip flop is 1 | 1. The output o | f the D fli | | | | |
| | a) 0 | | | b) 1 | 21 | | |
| | c) Either 0 or 1 | | | d) Can not s | • | | |
| 52. | After you service a laser problem. | r printer, you no | otice dirty | print. Which | n of the follo | owing would correct the | е |
| | a) Clean the developer | tank | | b) Reset the | printer | | |
| | c) Run several blank pag | ges | | d) Clean the | laser diode | 2 | |
| 53. | Which common bus spe | cification provi | ides the fa | astest data tr | ansfer rate | ? | |
| | a) VL bus | b) ISA | | c) PCI | | d) All of these | |
| 54. | In the terminology used | l in the RS-2320 | commur | nication stand | dards Mode | ems are | |
| | a) DTE | b) DCE | | c) FSK | | d) None of these | |
| 55. | The number of hardwar | e interrupts that | at the pro | cessor 8085 | consists of | is | |
| | a) 1 | b) 3 | | c) 5 | | d) 7 | |
| 56. | The size of each segme | nt in 8086 is | | | | | |
| | a) 64 KB | b) 24 KB | | c) 256 KB | | d) 50 KB | |
| 57. | How many type of cach | ne memory: | | | | | |
| | a) 2 | b) 3 | | c) 1 | | d) 4 | |
| 58. | The physical address of | memory in 808 | 86 is | | | | |
| | a) 20 bits | b) 16 bits | | c) 24 bits | | d) None of these | |
| 59. | Which of the following i | is used for man | ufacturin | g chips? | | | |
| | a) Control bus | | | b) control u | | | |
| | c) Parity unit | | | d) Semicono | ductor | | |
| 60. | What is SIM in 8085? | | | | | | |
| | a) Select interrupt Masl | | | b) Set interr | • | | |
| | c) Sorting interrupt mas | sk | | d) None of t | hese | | |
| 61 | Which one of the follow | wing arrays ren | resents a | hinary maxh | ean? | | |
| υ1. | a) (25, 12, 16, 13, 10, | | | 4, 13, 16, 10, | • | | |
| | c) (25, 14, 16, 13, 10, | | | 14, 12, 13, 10 | · · | | |

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62. Consider the following C code:
             int f (int n)
              {
                 static int p=0;
                If( n \le 0) return 1;
                        If (n>3)
                                    { p=n;
                                  return f(n-2) + 2;
                           return f(n-1) + p;
      }
    What is the value of f(4)?
                                                      c) 7
                                                                               d) 18
63. What is the Average complexity of quicksort algorithm?
                                                      b) O(n<sup>2</sup>)
    a) O(nlogn)
    c) O(n)
                                                      d) O(n/2)
64. A structure that can be placed within another structure is known as
    a) Self referential structure
                                                       b) Nested structure
    c) Parallel structure
                                                      d) Pointer to structure
65. Huffman algorithm can be implemented using a ____
                                                                                d) None of these
    a) Dequeue
                             b) Queue
                                                      c) Priority queue
66. A binary tree of height h has at least h nodes and atmost
                                                                                  nodes.
                             b) 2<sup>h</sup>
                                                      c) 2<sup>h-1</sup>
                                                                                d) 2<sup>h</sup>-1
67. The height of a binary heap with n nodes is equal to
    a) O(n)
                             b) O(log n)
                                                       c) O(n log n)
                                                                                d) O(n<sup>2</sup>)
68. The term optimal can mean
    a) shortest
                             b) cheapest
                                                      c) fastest
                                                                                d) All of these
69. Which algorithm uses the divide, conquer, and combine algorithmic paradigm?
    a) Selection sort
                                                      b) Insertion sort
    c) Merge sort
                                                      d) Radix sort
70. In which of the following hash functions, do consecutive keys map to consecutive hash values?
    a) Multiplication method
                                                       b) Division method
    c) Folding method
                                                      d) Mid square method
71. The process of examining memory locations in a hash table is called
    a) Hashing
                             b) Collision
                                                      c) Probing
                                                                                d) Addressing
72. s1="HI" s2="HELLOW", s3="BYE". How can we concatenate the three strings?
    a) strcat(s1, s2, s3)
                                                      b) strcat(s1,(strcat(s2,s3)))
    c) strcpy(s1, strcat(s2, s3))
                                                      d) None of these
```

| 73. | A linklist is a | | | | |
|-----|--|--------------------------------------|---|-------------------|--|
| | a) Random access structurec) Both | | b) Sequential access structured) none of these | | |
| 74. | Which of the followin | g is stable sorting algorit | hm | | |
| | a) Merge sort | b) Insertion sort | c) Radix sort | d) All of these | |
| 75. | Candidate key is also | known as | | | |
| | a) superkey | | b) Irreducible superke | y | |
| | c) Foreign key | | d) Primary key | | |
| 76. | Which of the followin | g is the binary operation | ? | | |
| | a) Union | b) Join | c) Cartesian Product | d) All of these | |
| 77. | Which of the following | ng is not classified as prin | nary storage? | | |
| | a) Main memory | b) Cache | c) Magnetic disk | d) Flash memory | |
| 78. | ALU works on the inst | ructions and data held in | n the | | |
| | a) Notebook | b) Registers | c) Capacitors | d) I/O devices | |
| 79. | 2 ⁷⁰ ? | | | | |
| | a) Exabyte | b) Petabyte | c) Zettabyte | d) None of these | |
| 80. | The program | | | | |
| m | ain() | | | | |
| { | | | | | |
| | int i = 5; | | | | |
| | i=(++i)/(i++); | | | | |
| | printf("%d", prints | 1); | | | |
| | a) 2 | b) 5 | c) 1 | d) 6 | |
| 01 | , | - | • | • | |
| ο1. | a) 5 | b) 14 | reated out of 4 distinct k c) 24 | d) 35 | |
| റാ | • | • | · | • | |
| ٥۷. | a) Merge sort | | lowest worst case comp c) Quick sort | d) Selection sort | |
| റാ | | • | • | d) Selection sort | |
| 83. | a) 1111 | epresentation of the dec b) 11111 | c) 111111 | d) 10001 | |
| 0.4 | , | • | C) IIIIII | u) 10001 | |
| 84. | | ce in the disk used for? | h) storing the device of | drivors | |
| | a) saving the super blc) saving temporary l | | b) storing the device ofd) saving process data | | |
| 0. | | - | a) saving process date | • | |
| ბ5. | FIFO is a | aigorithm. b) Non preemptive | c) Both a) and b) | d) None of these | |
| 0.0 | | | | a) None of these | |
| ŏb. | | y' + xy + x'y is equivalent | | d) v' + v | |
| | a) x' + y' | b) x + y | c) x + y' | d) x' + y | |

| 87. | The minimum number of | of D flip flops needed to | design a mod-258 count | er is |
|-----|---|---|----------------------------|------------------------|
| | a) 9 | b) 8 | c) 512 | d) 258 |
| 88. | The hexa decimal repre | sentation of 255 ₁₀ is | | |
| | a) 15F | b) FF | c) F15 | d) 1515 |
| 89. | How many select line is | needed in a 32x1 multip | olexer? | |
| | a) 32 | b) 1 | c) 5 | d) 4 |
| 90. | How many 3 to 8 line d decoder without using | ecoders with an enable any other logic gates? | input are needed to con | struct a 6 to 64 line |
| | a) 7 | b) 8 | c) 9 | d) 10 |
| 91. | The distance that can co | over by a cat6 cable with | out repeater is | |
| | a) 100 feet | b) 100 meter | c) 300 meter | d) 500 meter |
| 92. | The default parameter | passing mechanism in C | is | |
| | a) call by value | | b) call by reference | |
| | c) call by pointer | | d) None of these | |
| 93. | Which of the following | is useful in traversing a g | given graph by breadth fi | rst search? |
| | a) Stack | b) Set | c) List | d) Queue |
| 94. | The Pre-order and Inor respectively. Post orde | der traversals of a binar er traversal is | y tree are F A E K C D H G | i B, E A C K F H D B G |
| | a) FAECKDHGB | | b) E K C A H B G D F | |
| | b) ECKAHGBDF | | d) E C K A H B G D F | |
| 95. | Which of the following | system software resides | | ? |
| | a) Text editor | b) Assembler | c) Loader | d) All of these |
| 96. | Loss in signal power as | light travels down the fil | per is called? | |
| | a) Attenuation | b) Propagation | c) Scattering | d) Interruption |
| 97. | Which of the following | is private IP address? | | |
| | a) 192.168.24.43 | | b) 168.172.19.39 | |
| | c) 172.15.14.36 | | d) 12.0.0.1 | |
| 98. | a) JK flip-flop does notb) there is feedback in .c) JK flip-flop accepts be | JK flip-flop | | |
| 99. | Which of the following | expressions is in the sun | n-of-products (SOP) form | 17 |
| | a) AB + CD | b) AB(CD) | c) (A + B)(C + D) | |
| 100 |). The inner core of an o | ptical fiber is | | |
| | a) Glass or plastic | b) Copper | c) bimetallic | d) liquid |
| 101 | L. Which layers of the O | SI model does data com | pression? | |
| | a) Network | b) Datalink | c) Physical | d) Presentation |

| 102 | . Router operates in | | | |
|-----|--|-----------------------------|---|----------------------|
| | a) Data link layer | | b) Transport layer | |
| | c) Network layer | | d) All of the above | |
| 103 | . ARP is used to find | | | |
| | a) IP address | b) MAC address | c) Subnet address | d) Host address |
| 104 | . 802.5 is | | | |
| | a) CSMA/CD | b) Token Ring | c) Token Bus | d) None of these |
| 105 | . The number of address | s lines required to addre | ess 8 GB memory is | |
| | a) 8 | b) 1024 | c) 32 | d) 33 |
| 106 | 6. Which one of the follo | owing uses UDP as a trar | sport protocol ? | |
| | a) HTTP | b) Telnet | c) DNS | d) SMTP |
| 107 | . The maximum number | r of hosts in Class C using | g the masks 255.255.255 | .0? |
| | a) 255 | b) 2 ⁸ | c) 254 | d) none of these |
| 108 | . The binary number (11 | $101101.111)_2$ is equivale | ent to | |
| | a) (109.875)10 | | b) (109.89)10 | |
| | c) (109.835)10 | | d) (101.111)10 | |
| 109 | . An organization has a subnet mask would be | class-B network and wis | shes to form subnets for | 64 departments. The |
| | a) 255.255.0.0 | | b) 255.255.64.0 | |
| | c) 255.255.128.0 | | d) 255.255.252.0 | |
| 110 | . Which of the following | g is not practically possib | ole ? | |
| | a) SISD | b) SIMD | c) MISD | d) MIMD |
| 111 | . Which of the following | g does not support more | than one program at a t | ime? |
| | a) DOS | b) Linux | c) Windows | d)Unix |
| 112 | . Which is not an extern | al command? | | |
| | a) Edit | b) XCOPY | c) Sys | d) None of the above |
| 113 | . A 8 bit microprocessor | must have | | |
| | a) 8 addresss line | | b) 8 data lines | |
| | c) 8 control lines | | d) None of the above | |
| 114 | . Trojan-horse programs | S | | |
| | a) Are legitimate progra | ams that allow unauthor | rized access | |
| | b) Are hacker program | s that do not slow up the | e system | |
| | c) Really do not usually | | | |
| 445 | d) Usually or immediate | • | | |
| 115 | . A common bus can be | designed using | h) Throa state huffers | |
| | a) multiplexerc) both a and b | | b) Three state buffersd) None of these | |
| 110 | • | | a, Hone of these | |
| 110 | Cache memory is imple a) Dynamic RAM | emented using b) EPROM | c) EEPROM | d) None of the above |
| | a, bynaniic NAIVI | D) LI NOIVI | C) LLI NOIVI | a) None of the above |

| 117 | 7. The highest priority in | terrupt in 8085 micropro | cessor is | |
|-----|--|---|--------------------------|-----------------------|
| | a) INTR | b) RST 7.5 | c) TRAP | d) RST 5.5 |
| 118 | 3. How many full adders | are needed to add two | 4 bit numbers ? | |
| | a) 8 | b) 2 | c) 4 | d) 16 |
| 119 | 9. Thrashing | | | |
| | a) Reduces page I/O | | | |
| | b) Decreases the degre | | | |
| | c) Implies excessive page | | | |
| | d) Improve the system | performance | | |
| 120 | , , , | tement for action is calle | | |
| | a) assembler directive | | b) imperative statemen | t |
| | c) declarative statemen | | d) None of the above | |
| 12: | L. Cache memory is used | in computer system to | | |
| | a) Ensure fast booting | | b) Replace static memo | ry |
| | c) Relace harddisk | | d) none of the above | |
| 122 | With segmentation, if length of logical addres | there are 64 segments as is how many bits | and maximum segment s | ize is 512 words; the |
| | a) 12 | b) 6 | c) 15 | d) 9 |
| 123 | 3. Which of the following | file extensions indicate | only graphics files? | |
| | a) BMP and DOC | b) TXT and STK | c) JPEG and TXT | d) BMP and GIF |
| 124 | 1. Status bar shows diffe | rent types of keys: | | |
| | a) Num lock key | b) Caps lock key | c) Scroll lock key | d) All of these |
| 125 | 5. The default workbook | opens withw | orksheet. | |
| | a) 3 | b) 4 | c) 1 | d) None of these |
| 126 | 6. A sparse matrix is bett | er represented using a/a | in: | |
| | a) array | b) binary tree | c) multi-linked list | d) stack |
| 127 | 7. In long-distance data t | ransmission system, the | most preferable mode of | of communication is: |
| | a) serial transmission | | b) parallel transmission | |
| | c) Either serial or paral | lel transmission | d) None of the above | |
| 128 | 3. The performance of a | data communications ne | twork depends on | |
| | a) the numbers of users | | b) the transmission me | edia |
| | c) the hardware and ne | twork operating system | d) All of the above | |

| 129. Consider the fo | ollowing program fragmer t) | nt: | |
|---|---|---|-------------------------------------|
| { | , | | |
| case ' case ' case | '1' : printf("one"); '3' ": printf("three"); '5' : printf("five"); | | |
| defa | ult: printf("odd"); break; | | |
| } | break, | | |
| • | inted when input is '3'? | | |
| a)Three | b) threeodd | c) threefiveodd | d) three three three |
| 130. Consider the fo Int a[10]; i | ollowing two definitions nt *p; | | |
| Which of the fol | lowing statement is incor | rect ? | |
| a) P=a+2; c) a=p | | b) p=a+2; *p=a[5]; d) p=&a[3]; | |
| 131. Which of the fo | ollowing preprocessor dire | ectives is used to create m | acros |
| a) #include | b) #ifdef | c) #define | d) undef |
| b) makes the fic) changes thed) Changes the | le hidden so that it canno authentication permissic access permissions of a f | ile or directory | |
| a) Y | can paste a deleted line ι b) cp | c) p | d) paste |
| • | | n strategy is used by UNIX | |
| a) contiguous a | llocation | b) Linked allocation d) Sequential alloca | 1 |
| • | | cess competing for them. E for the system to be deadlo | each process may need two ock free? |
| a) 6 | b) 5 | c) 4 | d) 3 |
| b) shift positio | nal parameters by the val nal parameter by 1 sitional parameter | ue of n. | |
| 137. context switch | ing is: | | |
| a) part of spo | • | b) part of poling | |
| c) part of inte | rrupt handling | d) part of interrupt | servicing |

| 138. Swiches are | | | |
|---|--|-----------------------------|------------------|
| a) unicasting device | e | b) multicasting | |
| c) broadcasting | | e) none of these | |
| 139. The overhead in tin | ne division multiplexing | g is required for | |
| a) synchronization | | b) clock recovery | |
| c) error-control | | d) none of these | |
| 140. HDLC is a | protoc | ol. | |
| a)Character-orient | ted | b) bit oriented | |
| c) byte oriented | | d) count oriented | |
| 141. which of the follow | ing is not a library fund | ction ? | |
| a) isprint() | <pre>b) isdigit()</pre> | c) isspace() | d) none of these |
| 142.Which one is not tru a) A relation is in BC b) BCNF is stricter th c) A relation is in BC d) All are true | NF if it is in 4NF an 3 NF | t of the relation is a cand | lidate key |
| 143. In a relation referer | ntial integrity constrain | t can be specified with th | ne help of |
| a) primary key | b) Secondary key | c) Foreign key | d) None of these |
| 144. Which of the follow | ving is not a proper stat | e of transaction? | |
| a) Partially aborted | | b) partially commit | ted |
| c) Aborted | | d) Committed | |
| 145. Which one is autho | rization command in S | QL? | |
| a) Access | b) Allow | c) Grant | d) None of these |
| b) Atomicity, consistc) Atomicity, correct | s of transactions are rency control, isolation ency preservation, isolation, durabil t serilizable, isolation, d | ation, durability ity | |
| 147. Spooling is most be | neficial in multiprograi | mming environment whe | re |
| a) Most jobs are I/O | | | |
| b) Most jobs are CP | | | |
| • | ivided as I/O bound an | | |
| · | | ed for secondary memor | |
| • | · | ovide a memory capacity | • |
| a) 16 | b) 8 | c) 64 | d) 256 |

| 149. Which of the fo | | trol protocols ensure both | conflict serializability and |
|----------------------|--|----------------------------|------------------------------|
| 1. 2 phase lock | ing | | |
| 2. Time stamp | ordering | | |
| a) 1 only | b) 2 only | c) Both 1 and 2 | d) Neither 1 nor 2 |
| | tree in which the maximu in any non root node? | m number of keys in a node | e is 5. What is the minimun |
| a) 1 | b) 2 | c) 3 | d) 4 |
| | ** | ***** | |

Space for Rough Work