

SUBJECT CODE A-04-03	SUBJECT COMPUTER SCIENCE AND APPLICATIONS	PAPER III
HALL TICKET NUMBER		
QUESTION BOOKLET NUMBER		
OMR SHEET NUMBER		
DURATION 2 HOUR 30 MINUTES	MAXIMUM MARKS 150	NUMBER OF PAGES 16
		NUMBER OF QUESTIONS 75

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Candidates Signature

Name and Signature of Invigilator

Instructions for the Candidates

- Write your Hall Ticket Number in the space provided on the top of this page.
- This paper consists of seventy five multiple-choice type of questions.
- At the commencement of examination, the question booklet will be given to you. In the first 5 minutes, you are requested **to open the booklet and compulsorily examine it as below :**
 - To have access to the Question Booklet, tear off the paper seal on the edge of this cover page. Do not accept a booklet without sticker-seal and do not accept an open booklet.
 - Tally the number of pages and number of questions in the booklet with the information printed on the cover page. Faulty booklets due to pages/questions missing or duplicate or not in serial order or any other discrepancy should be got replaced immediately by a correct booklet from the invigilator within the period of 5 minutes. Afterwards, neither the Question Booklet will be replaced nor any extra time will be given.**
 - After this verification is over, the Test Booklet Number should be entered in the OMR Sheet and the OMR Sheet Number should be entered on this Test Booklet.
- Each item has four alternative responses marked (A), (B), (C) and (D). You have to darken the circle as indicated below on the correct response against each item.
Example : (A) (B) (C) (D)
where (C) is the correct response.
- Your responses to the items are to be indicated in the **OMR Answer Sheet given to you**. If you mark at any place other than in the circle in the Answer Sheet, it will not be evaluated.
- Read instructions given inside carefully.
- Rough Work is to be done in the end of this booklet.
- If you write your name or put any mark on any part of the OMR Answer Sheet, except for the space allotted for the relevant entries, which may disclose your identity, you will render yourself liable to disqualification.
- The candidate must handover the OMR Answer Sheet to the invigilators at the end of the examination compulsorily and must not carry it with you outside the Examination Hall.** The candidate is allowed to take away the carbon copy of OMR Sheet and used Question paper booklet at the end of the examination.
- Use only Blue/Black Ball point pen.**
- Use of any calculator or log table etc., is prohibited.**
- There is no negative marks for incorrect answers.**

అభ్యర్థులకు సూచనలు

- ఈ పుట పై భాగంలో ఇవ్వబడిన స్థలంలో మీ హాల్ టికెట్ నంబరు రాయండి.
- ఈ ప్రశ్న పత్రము డెబ్బైఐదు బహుళాప్త ప్రశ్నలను కలిగి ఉంది.
- పరీక్ష ప్రారంభమున ఈ ప్రశ్నపత్రము మీకు ఇవ్వబడుతుంది. మొదటి ఐదు నిమిషములలో ఈ ప్రశ్నపత్రమును తెరిచి కింద తెలిపిన అంశాలను తప్పనిసరిగా సరిచూసుకోండి.
 - ఈ ప్రశ్న పత్రమును చూడడానికి కవర్ పేజీ అంచున ఉన్న కాగితపు సీలును చించండి. స్టికర్ సీలులేని మరియు ఇదివరకే తెరిచి ఉన్న ప్రశ్నపత్రమును మీరు అంగీకరించవద్దు.
 - కవరు పేజీ పై ముద్రించిన సమాచారం ప్రకారం ఈ ప్రశ్నపత్రములోని పేజీల సంఖ్యను మరియు ప్రశ్నల సంఖ్యను సరిచూసుకోండి. పేజీల సంఖ్యకు సంబంధించి గానీ లేదా సూచించిన సంఖ్యలో ప్రశ్నలు లేకపోవుట లేదా నిజప్రతి కాకపోవుట లేదా ప్రశ్నలు క్రమపద్ధతిలో లేకపోవుట లేదా ఏదైనా తేడాలు ఉంటుంటే పంపి దోషపూరితమైన ప్రశ్న పత్రాన్ని వెంటనే మొదటి ఐదు నిమిషాల్లో పరీక్ష పర్యవేక్షకునికి తిరిగి ఇచ్చివేసి దానికి బదులుగా సరిగ్గా ఉన్న ప్రశ్నపత్రాన్ని తీసుకోండి. తదనంతరం ప్రశ్నపత్రము మార్చబడదు అదనపు సమయం ఇవ్వబడదు.
 - విధంగా సరిచూసుకొన్న తర్వాత ప్రశ్నపత్రం సంఖ్యను OMR పత్రము పై అదేవిధంగా OMR పత్రము సంఖ్యను ఈ ప్రశ్నపత్రము పై నిర్దిష్ట స్థలంలో రాయవలెను.
- ప్రతి ప్రశ్నకు నాలుగు ప్రత్యామ్నాయ ప్రతిస్పందనలు (A), (B), (C) మరియు (D) లుగా ఇవ్వబడ్డాయి. ప్రతి ప్రశ్నకు సరైన ప్రతిస్పందనను ఎన్నుకొని కింద తెలిపిన విధంగా OMR పత్రములో ప్రతి ప్రశ్నా సంఖ్యకు ఇవ్వబడిన నాలుగు వృత్తాల్లో సరైన ప్రతిస్పందనను సూచించే వృత్తాన్ని బాల్ పాయింట్ పెన్ తో కింద తెలిపిన విధంగా పూరించాలి.
ఉదాహరణ : (A) (B) (C) (D)
(C) సరైన ప్రతిస్పందన అయితే
- ప్రశ్నలకు ప్రతిస్పందనలను ఈ ప్రశ్నపత్రముతో ఇవ్వబడిన OMR పత్రము పై ఇవ్వబడిన వృత్తాల్లోనే పూరించి గుర్తించాలి. అలాకాక సమాధాన పత్రంపై వేరొక చోట గుర్తిస్తే మీ ప్రతిస్పందన మూల్యాంకనం చేయబడదు.
- ప్రశ్న పత్రము లోపల ఇచ్చిన సూచనలను జాగ్రత్తగా చదవండి.
- చిత్తుపనిని ప్రశ్నపత్రము చివర ఇచ్చిన ఖాళీస్థలములో చేయాలి.
- OMR పత్రము పై నిర్దిష్ట స్థలంలో సూచించవలసిన వివరాలు తప్పించి ఇతర స్థలంలో మీ గుర్తింపును తెలిపే విధంగా మీ పేరు రాయడం గానీ లేదా ఇతర చిహ్నాలను పెట్టడం గానీ చేసినట్లయితే మీ అనర్హతకు మీరే బాధ్యులవుతారు.
- పరీక్ష పూర్తయిన తర్వాత మీ OMR పత్రాన్ని తప్పనిసరిగా పరీక్ష పర్యవేక్షకుడికి ఇవ్వాలి. నాణ్యత పరీక్ష గది బయటకు తీసుకువెళ్ళకూడదు. పరీక్ష పూర్తయిన తరువాత అభ్యర్థుల ప్రశ్న పత్రాన్ని, OMR పత్రం యొక్క కార్బన్ కాపీని తీసుకువెళ్ళవచ్చు.
- నీలి/నల్ల రంగు రెండు బాల్ పాయింట్ పెన్ మాత్రమే ఉపయోగించాలి.
- లాగిథిమిక్ టేబుల్స్, క్యాలిక్యులేటర్లు, ఎలక్ట్రానిక్ పరికరాలు మొదలగునవి పరీక్షగదిలో ఉపయోగించడం నిషేధం.
- తప్పు సమాధానాలకు మార్కుల తగ్గింపు లేదు.



DO NOT WRITE HERE



COMPUTER SCIENCE AND APPLICATIONS

Paper – III

1. The following numbers are inserted into an empty binary search tree in the given order: 10, 1, 3, 5, 15, 12, 16. What is the height of the binary search tree (tree height is the maximum distance of a leaf node from the root) ?
- (A) 2 (B) 3
(C) 4 (D) 6
2. What is the time complexity of the following recursive function ?
- ```
int DoThisThing (int n) {
 if (n <= 2) return 1;

 else return (DoThisThing
 (floor(sqrt(n))) + n); }
```
- (A)  $\Theta (n^2)$   
(B)  $\Theta (n \log_2 n)$   
(C)  $\Theta (\log_2 n \log_2 n)$   
(D)  $\Theta (\log_2 n)$
3. Let  $w$  be the minimum weight among all the edge weights in an undirected connected graph. Let  $e$  be a specific edge of weight  $w$ . Which of the following is FALSE?
- (A) There is a minimum spanning tree containing  $e$   
(B) If  $e$  is not in a minimum spanning tree  $T$  after that in the cycle formed by adding  $e$  to  $T$ , all edges have the same weight.  
(C) Every minimum spanning tree has an edge of weight  $w$   
(D)  $e$  is present in every minimum tree has an edge of weight  $w$ .
4. Algorithm for 0/1 knapsack Problem of 3 instances can be designed using
- (A) Greedy Method  
(B) Divide-and-Conquer  
(C) Dynamic Programming  
(D) All the above



5. Dijkstra algorithm is for finding
- (A) Shortest paths from single source to several sinks.
  - (B) Minimum spanning tree for a graph
  - (C) Sorted list of nodes in a undirected graph with negative edge weights
  - (D) All the above
6. The problems 3-SAT and 2-SAT are
- (A) both in P
  - (B) both NP-complete
  - (C) NP-complete and in P respectively
  - (D) undecidable and NP-complete respectively
7. Suppose A and B are two sets of strings from  $\Sigma^*$ . Further suppose that B is a subset of A. Which of the following statement must always be true for A and B ?
- I. If A is finite then B is finite
  - II. If A is regular then B is regular
  - III. If A is context free then B is context free
- (A) I only
  - (B) II only
  - (C) III only
  - (D) All the above
8. Which of the following languages will be equivalent ?
- $L_1 = \{0^n 1^n / n \geq 1\}$ ,  $L_2 = S \rightarrow 0S1 \mid 01$ ;  $L_3 = 01 \mid 0^+ 011^+$
- (A)  $L_2$  and  $L_3$
  - (B)  $L_3$  and  $L_1$
  - (C)  $L_1$  and  $L_2$
  - (D)  $L_1$ ,  $L_2$  and  $L_3$
9. Consider a DFA accepting all strings over {a, b} such that number of a's and b's are even. What is the minimum number of states such DFA will have?
- (A) 2
  - (B) 4
  - (C) 6
  - (D) 8
10. Which one of the following is FALSE?
- (A) There is a unique minimal DFA for every regular language.
  - (B) Every NFA can be converted to an equivalent PDA.
  - (C) Complement of every context-free language is recursive.
  - (D) Every non-deterministic PDA can be converted to an equivalent deterministic PDA



11. A shift reduce parser carries out the actions specified within braces immediately after reducing with the corresponding rule of grammar :  $S \rightarrow xxW$  {print "1"},  $S \rightarrow Y$  {print "2"},  $W \rightarrow Sz$  {print "3"}. What is the translation of xxxxyzz using the syntax directed translation scheme described by the above rules
- (A) 11231  
(B) 33211  
(C) 11233  
(D) 23131
12. Let S be an NP-complete problem Q and R be two other problems not known to be in NP. Q is polynomial-time reducible to S and S is polynomial-time reducible to R. Which one of the following statements is true?
- (A) R is NP-complete  
(B) R is NP-hard  
(C) Q is NP-complete  
(D) Q is NP-hard
13. Degree of Membership of x in Union of fuzzy sets A and B is defined as
- (A)  $\mu_{A \cup B}(x) = \text{Max} \{ \mu_A(x), \mu_B(x) \}$   
(B)  $\mu_{A \cup B}(x) = \{x/ x \text{ is in A or } x \text{ is in B or in both}\}$   
(C)  $\mu_{A \cup B}(x) = \mu_A(x) \cdot \mu_B(x)$   
(D)  $\mu_{A \cup B}(x) = \text{Min} \{ \mu_A(x), \mu_B(x) \}$
14. The inner product and outer product of two fuzzy vectors  $a = (0.5, 0.2, 1.0, 0.8)$  and  $b = (0.8, 0.1, 0.9, 0.3)$  are respectively
- (A) 1.56 and 0.44  
(B) 0.5 and 0.5  
(C) 0.9 and 0.2  
(D) 1.56 and 8.44
15. Logistic sigmoid function is
- (A) same as ramp function  
(B)  $1/(1+e^{-kx})$  with k is the steepness parameter  
(C)  $-1 + 2/(1+e^{-kx})$  with k is the steepness parameter  
(D) None of the above
16. Given the statements
- I. Simple Perceptions are single layer feed-forward networks
  - II. Simple Perceptions use binary activation functions
  - III. Simple Perception has output unit which has an activation 1, 0, - 1
- (A) I and II are correct  
(B) I, II, III are correct  
(C) II and III are correct  
(D) I and III are correct



17. Consider the grammar  $E \rightarrow E + n \mid E \times n \mid n$ .

For a sentence  $n + n$ , the handles in the right-sentential form of the reduction are

(A)  $n$ ,  $E + n$  and  $E + n \times n$

(B)  $n$ ,  $E + n$  and  $E + E \times n$

(C)  $n$ ,  $n + n$  and  $n + n \times n$

(D)  $n$ ,  $E + n$  and  $E \times n$

18. With reference to classes and member functions in C++, identify the FALSE statement among the following:

(A) Only the member functions can have access to private data members and private functions.

(B) Member functions can be defined inside or outside the class.

(C) A static member function can have access to the static members declared in any class.

(D) The keyword `const` is appended to the function prototype of a member function that does not alter any data in the class.

19. Identify TRUE statement among the following with reference to inheritance concept in C++.

(A) A new class derived from base class using inheritance is known as super class.

(B) The private members of base class can be inherited.

(C) A member declared protected is accessible by any class immediately derived from it.

(D) An abstract class is one that is used to create objects.

20. Constructor in a OOP language

(A) helps us to construct objects of a class

(B) is a member function that initialize the objects of a class

(C) must be declared in a private section

(D) can be a virtual function

21. Which of the following is true?

(A) Optimal solution of Linear Programming Problem can always be identified only in middle of feasible region

(B) Optimal solution of Linear Programming Problem can always be identified with one of the feasible corner points of solution space

(C) Solution space of Linear Programming is always bounded

(D) Solution space of Linear Programming has finite number of solutions



22. The optimal value of  $z$  for the following Linear Programming Problem is

$$\text{Maximize } z = 5x_1 + 6x_2$$

$$\text{Subject to } x_1 - 2x_2 \geq 2$$

$$-2x_1 + 3x_2 \geq 2$$

$x_1, x_2$  are unrestricted in sign

- (A) - 86
- (B) 86
- (C) unbounded solution
- (D) 6

23. The starting solution using least-cost method for the following transportation model

|    |    |    |    |
|----|----|----|----|
| 1  | 2  | 6  | 7  |
| 0  | 4  | 2  | 12 |
| 3  | 1  | 5  | 11 |
| 10 | 10 | 10 |    |

is

- (A) 40
- (B) 60
- (C) 94
- (D) 61

24. Which of the following statements are true?

- I. Primal simplex method starts with feasible but not optimal
- II. Dual simplex method starts infeasible but optimal
- III. Primal simplex method starts with infeasible but optimal
- IV. Dual simplex method starts feasible and optimal

- (A) II and III only
- (B) I, II and III only
- (C) I and II only
- (D) I, II, III and IV

25. The method used for in developing necessary Kuhn-Tucker conditions for identifying stationery points of non-linear constrained problem with constraints

- (A) Min-Cut
- (B) Lagrangean
- (C) Vogel
- (D) Gomory's Cutting Plane



26. The following four statements were sought to bring out the similarities between the concept of a Table and that of a Relation (in Relational model of data). One of them is incorrect. Identify the INCORRECT choice.
- (A) The number of rows in a table is the same as the cardinality of a relation
  - (B) The number of columns of a table is the same as the degree of a relation
  - (C) The tenth row of a Table is the 10<sup>th</sup> Tuple of a Relation
  - (D) The column headings of a Table is the same as the Attribute names of a Relation
27. For a database relation R (a, b, c, d) where the domain of a, b, c, d include only atomic values. Only the following functional dependencies and those that can be inferred from them hold:  $a \rightarrow b, b \rightarrow d$ . The relation is
- (A) in first normal form but not in second normal form
  - (B) in second normal form but not in third normal form
  - (C) in third normal form
  - (D) None
28. Consider the schedule consisting of sequence of Read (r) and Write (w) operations. Subscript of r and w denote two transactions 1 and 2.
- $r_1(A); w_1(A); r_2(A); w_2(A); r_1(B); w_1(B); r_2(B); w_2(B)$
- This schedule is of \_\_\_\_\_ serializable.
- (A) Time stamp
  - (B) Non-serial
  - (C) Conflict
  - (D) Serial
29. Query By Example (QBE) is based on
- (A) Tuple Calculus
  - (B) Domain Calculus
  - (C) SQL
  - (D) All of the above
30. A trigger is
- (A) a statement that enables to start any DBMS
  - (B) a statement that is executed by the user when debugging an application program
  - (C) a condition the system tests for the validity of the user
  - (D) a statement that is executed automatically by the system as a side effect of modification to the database





- 31.** RAID model is best suited for
- (A) Extremely short development cycle
  - (B) Extremely large development cycle
  - (C) Suitable for any kind of development
  - (D) None of the above
- 32.** A level 0 Data Flow Diagram (DFD) is called
- (A) Bubble chart
  - (B) Process chart
  - (C) ER Diagram
  - (D) Context diagram
- 33.** Which one of the following is equivalent for quality control in Software ?
- (A) Defect prevention
  - (B) Variation control
  - (C) Defect removal
  - (D) Cost control
- 34.** Degree of Cohesion of objects can be determined by
- (A)  $\frac{\text{Total fan\_in of all objects}}{\text{Total fan\_out}}$
  - (B)  $\frac{\text{Total fan\_out of all objects}}{\text{Total fan\_in}}$
  - (C)  $\frac{\text{Total fan\_out of all objects}}{\text{Total objects}}$
  - (D)  $\frac{\text{Total fan\_in}}{\text{Total objects}}$
- 35.** Prototyping model is
- (A) linear sequential model
  - (B) an iterative model
  - (C) an evolutionary model
  - (D) none
- 36.** Hamming distance of 5 can detect and correct errors in
- (A) five bits
  - (B) three bits
  - (C) two bits
  - (D) one bit only
- 37.** Which of the following statements are true for Huffman Code ?
- Huffman Coding
- I. is an entropy encoding algorithm
  - II. is used for lossless data compression
  - III. makes use of a variable-length code
- (A) II and III only
  - (B) I and II only
  - (C) I and III only
  - (D) All of these





45. Page fault occurs when
- (A) there is a mismatch between requested data and available data
  - (B) OS is finding fault with a page which is already loaded into memory
  - (C) OS is looking for a page which is not yet defined by the programmer/user
  - (D) OS is looking for a page which is not loaded into main memory
46. Which of the following is correct with respect to *mailbox* in Inter-Process Communication ?
- (A) Only the owner process can send messages to a *mailbox*
  - (B) No process other than the owner can send or receive messages to/from a *mailbox*
  - (C) Only the owner process can receive messages from a *mailbox*
  - (D) Any process can receive messages from a *mailbox*
47. A critical region is
- (A) One which is enclosed by a pair of P and V operation on semaphores
  - (B) A program segment where shared resources are accessed
  - (C) A program segment that often causes unexpected system crashes
  - (D) A program segment that has not been proved bug-free
48. Which of the following is NOT a valid deadlock prevention scheme?
- (A) Release all resources before requesting a new resource
  - (B) Number all resources uniquely and never request a lower numbered resource than the last requested
  - (C) Never request a resource after releasing the resource
  - (D) Request and be allocated all required resources before execution
49. Thrashing
- (A) reduces page I/O
  - (B) decreases the degree of multi-programming
  - (C) implies excessive I/O
  - (D) improve the system performance
50. In the relation instance given below, which of the following functional dependencies are satisfied on it.
- | A | B | C |
|---|---|---|
| 1 | 4 | 2 |
| 1 | 5 | 3 |
| 1 | 6 | 3 |
| 3 | 2 | 2 |
- (A)  $AB \rightarrow C$  and  $C \rightarrow A$
  - (B)  $BC \rightarrow A$  and  $B \rightarrow C$
  - (C)  $BC \rightarrow A$  and  $A \rightarrow C$
  - (D)  $AC \rightarrow B$  and  $B \rightarrow A$



51. The minimum time delay between the initiation of two independent memory operations is called

- (A) access time
- (B) cycle time
- (C) transfer time
- (D) latency time

52. The first operating system used in Microprocessors is

- (A) Zenix
- (B) DOS
- (C) CP/M
- (D) Multics

53. A micro-programmed control unit

- (A) is faster than a hard-wired control unit
- (B) is useful when very small programs are to be run
- (C) facilitates easy implementation of new instructions
- (D) usually refers to the control unit of a micro-processor

54. The interrupt vector address for TRAP 8085 in 8085 is

- (A) 0000h
- (B) 0024h
- (C) 0018h
- (D) 002ch

55. Von Neumann architecture is

- (A) SISD
- (B) SIMD
- (C) MIMD
- (D) MISD

56. Which of the following devices has a relative origin ?

- (A) joystick
- (B) track ball
- (C) mouse
- (D) touch screen

57. For a database relation  $R(X, Y, Z, P)$ , where the domains of  $X, Y, Z,$  and  $P$  include only atomic values, and only the following functional dependencies and those that can be inferred from them hold:  $X \rightarrow Z,$   $Y \rightarrow P.$

The relation is

- (A) in first normal form but not in second normal form
- (B) in second normal form but not in third normal form
- (C) in third normal form
- (D) none of the above



- 58.** Author-ware is a software for
- (A) Software for book writing
  - (B) Creating multimedia documents
  - (C) Graphics creating
  - (D) Author's Database
- 59.** Raster Systems display a picture from a definition in a
- (A) Display file program
  - (B) Frame grabber
  - (C) Frame buffer
  - (D) Display buffer
- 60.** The best suited hidden surface algorithm to deal with non-polygonal, non-planar surface patches is
- (A) Painter's algorithm
  - (B) z-buffer algorithm
  - (C) Ray tracing
  - (D) Scan-line algorithm
- 61.** One of the most noticeable factors that limit processor chip's speed is
- (A) Heat built on chip
  - (B) Large size of monitor
  - (C) Infrequent use of the Computer System
  - (D) Size of hard disk
- 62.** Any given Boolean expression can be implemented by using
- (A) NAND and NOR gates only
  - (B) NAND gates only
  - (C) NOR gates only
  - (D) OR gates only
- 63.** The main disadvantage of DRAM over SPAM is
- (A) High package density
  - (B) Costly
  - (C) External memory refresh logic is required
  - (D) High power consumption
- 64.** A micro-processor with a clock frequency of 100 MHz will have a clock period of
- (A) 1 ns
  - (B) 10 ns
  - (C) 10000 ns
  - (D) 1000 ns
- 65.** The ALE line of an 8085 microprocessor is used to
- (A) latch the output of an I/O instruction into an external latch.
  - (B) latch the 8 bits of address line AD7-ADO into external latch
  - (C) deactivate the chip-select signal from memory devices
  - (D) find the interrupt enable status of the TRAP interrupt



66. The surface of the drum on which toner sticks is
- (A) photogenic
  - (B) photoconductive
  - (C) photosensitive
  - (D) photonic
67. In clipping algorithm of Cohen & Sutherland using region codes, a line is already clipped if the
- (A) logical OR of the end point code is 0000
  - (B) logical OR of the end point code is not 0000
  - (C) logical AND of the end point code is 0000
  - (D) logical AND of the end point code is not 0000
68. The refresh rate below which picture flickers is
- (A) 20
  - (B) 25
  - (C) 30
  - (D) 35
69. Plasma panels are based on
- (A) Liquid Crystal display
  - (B) Non-emissive display
  - (C) Gas discharge display
  - (D) Absorbing display
70. Which of the following point lies on the same side of the origin, with reference to the line  $3x + 7y = 2$  ?
- (A) (3, 0)
  - (B) (1, 0)
  - (C) (0.5, 0.5)
  - (D) (0.5, 0)
71. Which of the following class allows creation of only one object ?
- (A) Virtual class
  - (B) Abstract class
  - (C) Singleton class
  - (D) Friend class



72. Which of the following concept is appropriate in determining what method to invoke at run time ?

- (A) dynamic typing
- (B) dynamic binding
- (C) dynamic loading
- (D) data hiding

73. A horn clause with exactly one positive literal is called

- (A) A definite clause
- (B) A goal clause
- (C) A fact
- (D) A twist horn

74. BNF is a meta language for

- (A) specifying the semantics of a language
- (B) specifying the context free grammar
- (C) describing how a program works
- (D) shell programming

75. As the number of entries in the Hash table increases, the number of collisions

- (A) decreases
- (B) remains same
- (C) increases
- (D) randomly changes



Space for Rough Work