	SHIIdenHoung
Test Paper : III Test Subject : COMPUTER SCIENCE AND APPLICATIONS Test Subject Code : A-04-03	Test Booklet Serial No. : OMR Sheet No. : Hall Ticket No. (Figures as per admission card)
Name & Signature of Invigilator Name :	Signature :

Paper : III

Subject: COMPUTER SCIENCE AND APPLICATIONS

Time: 2 Hours 30 Minutes Maximum Marks: 150

Number of Pages in this Booklet: 16

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.
- 3. 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:
 - (i) 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.
 - (ii) 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.
 - (iii) 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)

where (C) is the correct response.

- Your responses to the items are to be indicated in the OMR Sheet given to you. If you mark at any place other than in the circle in the Answer Sheet, it will not be evaluated.
- 6. Read instructions given inside carefully.
- 7. Rough Work is to be done in the end of this booklet.
- 8. 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.
- You have to return the test question booklet and OMR Answer Sheet to the invigilators at the end of the examination compulsorily and must not carry it with you outside the Examination Hall.
- 10. Use only Blue/Black Ball point pen.
- 11. Use of any calculator or log table etc., is prohibited.
- 12. There is no negative marks for incorrect answers.

అభ్యర్థులకు సూచనలు

Number of Questions in this Booklet: 75

- 1. ఈ పుట పై భాగంలో ఇవ్వబడిన స్థలంలో మీ హాల్ టికెట్ నంబరు రాయండి.
- 2. ఈ ప్రశ్న ప్రత్రము డెభైఐదు బహుళైచ్ఛిక ప్రశ్నలను కలిగి ఉంది.
- 3. పరీక్ష ప్రారంభమున ఈ ప్రశ్నాపత్రము మీకు ఇవ్వబడుతుంది. మొదటి ఐదు నిమిషములలో ఈ ప్రశ్నాపత్రమును తెరిచి కింద తెలిపిన అంశాలను తప్పనిసరిగా సరిచూసుకోండి.
 - (i) ఈ ప్రశ్న ప్రత్రమును చూడడానికి కపర్పేజి అంచున ఉన్న కాగితపు సీలును చించండి. స్టిక్కర్ సీలులేని మరియు ఇదివరకే తెరిచి ఉన్న ప్రశ్నాపత్రమును మీరు అంగీకరించవద్దు.
 - (ii) కపరు పీజి పై ముుదించిన సమాచారం ప్రకారం ఈ ప్రశ్నపత్రములోని పీజీల సంఖ్యను మరియు ప్రశ్నల సంఖ్యను సరిచూసుకోండి. పీజీల సంఖ్యకు సంబంధించి గానీ లేదా సూచించిన సంఖ్యలో ప్రశ్నలు లేకపోవుట లేదా నిజప్రతి కాకపోవుట లేదా ప్రశ్నలు త్రమపద్ధతిలో లేకపోవుట లేదా ఏపైనా తేడాలుండుట పంటి దోషపూరితమైన ప్రశ్న పడ్రాన్ని వెంటనే మొదటి ఐదు నిమిషాల్లో పరీక్షా పర్యవేశ్లకునికి తిరిగి ఇచ్చివేసి దానికి బదులుగా సరిగ్గా ఉన్న ప్రశ్నపత్రాన్ని తీసుకోండి. తదనంతరం ప్రశ్నపత్రము మార్చబడదు అదనపు సమయం ఇవ్వబడదు.
 - (iii) పై విధంగా సరిచూసుకొన్న తర్వాత ప్రశ్నాపత్రం సంఖ్యమ OMR ప్రతము పై అదేవిధంగా OMR ప్రతము సంఖ్యమ ఈ ప్రశ్నాపత్రము పై నీర్డిక్షస్థలంలో రాయవలెను.
- 4. ప్రతి ప్రశ్నకు నాలుగు ప్రత్యామ్నాయ ప్రతిస్పందనలు (A), (B), (C) మరియు (D) లుగా ఇవ్వబడ్డాయి. ప్రతిప్రశ్నకు సరైన ప్రతిస్పందనను ఎన్నుకొని కింద తెలిపిన విధంగా OMR ప్రతములో ప్రతి ప్రశ్నా సంఖ్యకు ఇవ్వబడిన నాలుగు వృత్తాల్లో సరైన ప్రతిస్పందనను సూచించే వృత్తాన్ని బాల్ పాయింట్ పెన్ కో కింద తెలిపిన విధంగా పూరించాలి.

ఉదాహరణ : A B (C) సరైన భతిస్పందన అయితే

- 5. ప్రశ్నలకు ప్రతిస్పందనలను ఈ ప్రశ్నప్రతముతో ఇవ్వబడిన OMR పత్రము పైన ఇవ్వబడిన వృత్తాల్లోనే పూరించి గుర్తించాలి. అలాకాక సమాధాన పత్రంపై పేరొక చోట గుర్తిస్తే మీ ప్రతిస్పందన మూల్యాంకనం చేయబడదు.
- 6. ప్రశ్న పత్రము లోపల ఇచ్చిన సూచనలను జాగ్రత్తగా చదవండి.
- 7. చిత్తుపనిని ప్రశ్నపత్రము చీవర ఇచ్చిన ఖాళీస్థలములో చేయాలి.
- 8. OMR ప్రతము పై నిర్ణీత 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 ప్రశ్నప్షుతాన్ని మరియు OMR ప్రతాన్ని తప్పనిసరిగా పరీక్షుర్యవేక్షకుడికి ఇవ్వాలి. వాటిని పరీక్ష గది బయటకు తీసుకువెళ్లకూడదు.
- 10. నీలి/నల్ల రంగు బాల్ పాయింట్ పెన్ మాత్రమే ఉపయోగించాలి.
- లాగరిథమ్ చేబుల్స్, క్యాలిక్యులేబర్లు, ఎల్రక్టానిక్ పరికరాలు మొదలగునవి పరీక్షగదిలో ఉపయోగించడం నిషేధం.
- 12. తప్పు సమాధానాలకు మార్కుల తగ్గింపు లేదు.

III & A-04-03



[III § 2 A-04-03]



COMPUTER SCIENCE AND APPLICATIONS

Paper - III

- A method of providing security to transport e-mails is
 - (A) TLS
 - (B) PGP
 - (C) IP-sec
 - (D) BGP
- 2. A combinational circuit is designed to take 4 bit input. The number from 0 to 9 are given as input in the binary form. The circuit outputs '1' if 5,6,7 or 9 are given input. For all other numbers the circuit outputs '0'. The circuit is designed only using AND, OR, NOT gates. What is the minimum number of gates required?
 - (A) 2
 - (B) 3
 - (C) 4
 - (D) 5
- 3. The MAC protocol used in Ethernet is
 - (A) ALOHA
 - (B) Token ring
 - (C) CSMA/CD
 - (D) Token bus

4. The simplified form of the boolean expression (x + y' + z) (x + y' + z')

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$$(x + y + z)$$

- (A) x'y + z
- (B) xy + z
- (C) x + y'z
- (D) x' + y'z
- Arrange the following IP addresses in the order of Class A, Class B, Class C and Class D.
 - I. 193, 200, 151, 2
 - II. 189. 51. 21. 200
 - III. 225. 2.2.200
 - IV. 126. 8. 2. 200
 - (A) I, IV, II, III
 - (B) III, II, IV, I
 - (C) IV, II, I, III
 - (D) II, III, IV, I
- **6.** Addressing modes of the following 8085 instructions in the same order.

- (A) Implicit, Indirect, Direct, Register
- (B) Implicit, Indirect, Register, Immediate
- (C) Direct, Indirect, Immediate, Register
- (D) Direct, Immediate, Register, Indirect

7. The concatenation of two lists is to be performed in 0(1) time. Which of the following implementation of a list should be used?

- (A) Singly linked list
- (B) Doubly linked list
- (C) Circularly doubly linked list
- (D) Array implementation of list
- 8. Match the following:
 - I. Non vectored interrupt 1. ISR
 - II. Non Maskable interrupt 2. RST2
 - 3. TRAP III. Program for interrupt
 - IV. Software Interrupt

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- (A) 4 1 2
- (B) 2 3 1
- (C) 1 3 2
- (D) 2 3 4

- Student Bounty.com 9. Search algorithms are Judged on the of
 - I. Completeness
 - II. Optimality
 - III. Time complexity
 - IV. Space complexity
 - (A) I and II
 - (B) I, II and III
 - (C) II, III and IV
 - (D) All of the above
- 10. Choose the answer from the following register(s) that store the address of a memory location.
 - I. Program counter
 - II. Accumulator
 - III. MAR
 - IV. BC Register pair
 - (A) I and II are correct
 - (B) II and III are correct
 - (C) I and IV are correct
 - (D) I and III are correct
- 11. If G be a complete undirected graph on 6 vertices. If vertices of G are labeled then the number of distinct cycles of length 4 in G is equal to
 - (A) 15
 - (B) 30
 - (C) 90
 - (D) 360

4. INTR

(D) Round Robin

			An Abstract Data Type (ADT) is	
12.	The number of vectored interrupts in 8085 is (A) 4 (B) 5 (C) 6 (D) 3 The Java compiler translates source code into (A) Machine Code		 (A) same as an abstract class (B) a data type that cannot be instantiated (C) a data type for which only the operations defined on it can be used (D) all of the above In a paged memory the page hit ratio is 0.35. The time required to access a page 	
14.	 (B) Assembly Code (C) Byte Code (D) All of the above Object-Modelling Technique was proposed by (A) Booch (B) Rambaugh (C) Jacobson 		in secondary memory is equal to 100 nsec. The time required to access a page in primary memory is 10 nsec. The average time required to access a page is (A) 55 nsec. (B) 68 nsec. (C) 68.5 nsec. (D) 78.5 nsec.	
15.	(D) All of the above The following scheduling algorithm is inherently pre emptive (A) FCFS (B) SJF (C) LJF	18.	abstraction is a named sequence of instructions that has a specific and limited function. (A) Procedural (B) Data (C) Control	

(D) Physical

19. A process executes the code

fork();

fork();

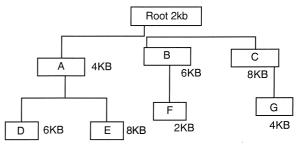
fork();

fork();

The total number of child processes created is

- (A) 4
- (B) 15
- (C) 7
- (D) 5
- 20. If A = { 0, 1 }, then the number of possible strings of length 'n' is
 - (A) n!
 - (B) $n \times n$
 - (C) nⁿ
 - (D) 2ⁿ

21. The overlay tree for a program is below. What will be the size of the physica memory partition required to load and run the program?



- (A) 8 KB
- (B) 20 KB
- (C) 12 KB
- (D) 14 KB
- **22.** The complexity of inter connection among modules is described by
 - (A) Cohesion
 - (B) Temporal cohesion
 - (C) Logical cohesion
 - (D) Coupling
- 23. A 1000 K byte memory is managed using variable partitions but to compaction. It currently has two partitions of sizes 200 K bytes and 340 K bytes respectively. The smallest allocation request in K bytes that could be denied is for
 - (A) 380
- (B) 520
- (C) 481
- (D) 461

24. The grammar guaranteed by production rules

$$S \rightarrow a \; SBc \, , \; CB \rightarrow BC \, , \; aB \rightarrow aa \; is$$

(A)
$$a^{n}b^{n}c^{n}$$
, $n \ge 1$

(B)
$$a^n b^n c^n$$
, $n \ge 0$

(C)
$$a^n b^n c^n, n > 0$$

(D)
$$a^{n} b^{n} c^{n}$$
, $n \le 0$

- 25. The following page replacement algorithms suffer from Belady's anomaly.
 - I. Optimal replacement
 - II. LRU
 - III. FIFO
 - IV. MRU
 - (A) I and IV correct (B) I and III correct
 - (C) II and III correct (D) II and IV correct
- 26. Given the basic ER and relational models. which of the following is INCORRECT?
 - (A) An attribute of an entity can have more than one value
 - (B) An attribute of an entity can be composite
 - (C) In a row of a relational table, an attribute can have more than one value
 - (D) In a row of a relational table, an attribute can have exactly one value or a NULL value

- SHIIdent BOUNTY COM 27. The algorithm used for searching AND graph is
 - (A) A*
 - (B) AO*
 - (C) Iterative deepening A*
 - (D) Iterative deepening AO*
- 28. The PROJECT operator of a relational algebra creates a new table that has always
 - (A) More number of columns than original table
 - (B) More number of rows than the original table
 - (C) Same number of rows as the original table
 - (D) Same number of columns as the original table
- 29. The Natural Language sentence will be represented in NLP with
 - I. ATN
 - II. RTN
 - III. FPL
 - IV. FRAMES
 - (A) III, IV
 - (B) IV, I
 - (C) I, II
 - (D) II, III

30. The file organization in which the physical location of a record is determined by a Mathematical function that maps the key to address of the record is

- (A) Hashed file organization
- (B) B Tree file organization
- (C) B' Tree file organization
- (D) Sequential file organization
- **31.** Consider the following statements about the cyclomatic complexity of the control flow graph of a program module. Which of these are TRUE?
 - i. The cyclomatic complexity of a module is equal to the maximum number of linearly independent circuits in the graph.
 - ii. The cyclomatic complexity of a module is the number of decisions on the module plus one. Where a decision is effectively any conditional statement in the module.
 - iii. The cyclomatic complexity can also be used as a number of linearly independent paths that should be tested during path coverage testing
 - (A) i and ii
 - (B) ii and iii
 - (C) i and iii
 - (D) i, ii and iii

- StudentBounty.com 32. Which of the sorting algorithm slowest?
 - (A) Bubble sort
 - (B) Quick sort
 - (C) Shell sort
 - (D) Heap sort
- **33.** The approach used in top-down analysis and design is
 - (A) to identify the top level functions by combining many smaller components into a single entity
 - (B) to identify a top level function and then create a hierarchy of lower level modules and components
 - (C) to flowcharts after prepare programming has been completed
 - (D) all of the above
- **34.** Match the following:
 - I. Flow control
- 1. Token Bucket
- II. Error control
- 2. Sliding window
- III. Congestion control 3. Manchester encoding
- IV. Synchronization 4. Parity bit

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- (A) 2 4 1 3
- (B) 3 4 2 1
- 3 (C) 4 2 1
- 4 2 3 (D) 1

- **35.** Slow start is a technique used by the TCP to reduce
 - (A) Number of buffers
 - (B) Number of timers
 - (C) Number of TCP connections
 - (D) Number of timeouts of segments
- 36. A B-Tree used as an index for a large database table has four levels including root node. If a new key is inserted in this index, then the maximum number of nodes that could be newly created in the process are
 - (A) 5
 - (B) 4
 - (C) 3
 - (D) 2
- **37.** Consider the following proportional statements

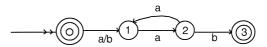
$$P_1: \big((\mathsf{A} \land \mathsf{B}) \to \mathsf{C} \big) \equiv \big((\mathsf{A} \to \mathsf{C}) \land (\mathsf{B} \to \mathsf{C}) \big)$$

$$\boldsymbol{P_2}: \big((\boldsymbol{A} \vee \boldsymbol{B}) \rightarrow \boldsymbol{C} \big) \equiv \big((\boldsymbol{A} \rightarrow \boldsymbol{C}) \vee (\boldsymbol{B} \rightarrow \boldsymbol{C}) \big)$$

Which one of the following are true?

- (A) P_1 is tautology, but not P_2
- (B) P₂ is tautology, but not P₁
- (C) P_1 and P_2 are tautologies
- (D) Both P_1 and P_2 are not tautologies

- 38. What is difference between a Java and a Java application ?
 - (A) An application can in general be trusted whereas an applet can't
 - (B) An applet must be executed in a browser environment
 - (C) An applet is not able to access the files of the computer it runs on
 - (D) All of the above
- **39.** The following machine will accept the string



- (A) aaab
- (B) aabab
- (C) baaab
- (D) bab
- 40. Types of validation testing
 - (A) Alpha and Beta Testing
 - (B) Top down and Bottom up testing
 - (C) Recovery and Integrity testing
 - (D) All the above

41. Choose the correct answer, the protocols which returns IP address.

- I. ARP
- II. RARP
- III. HTTP
- IV. DNS
- (A) I and II correct
- (B) All correct
- (C) I, II, III correct
- (D) II and IV correct
- **42.** Assuming P ≠ NP, which of the following is TRUE ?
 - (A) NP complete = NP
 - (B) $NP complete nP = \phi$
 - (C) NP hard = NP
 - (D) P = NP Complete
- **43.** What is the appropriate pairing of items in the two columns, listing various activities encountered in a software life cycle?
 - P. Requirements capture
- Module
 Development
 and Integration
- Q. Design
- 2. Domain analysis
- R. Implementation
- 3. Structural
 Behavioural
 Modelling
- S. Maintenance
- 4. Performance Tuning
- (A) P-3, Q-2, R-4, S-1
- (B) P-2, Q-3, R-1, S-4
- (C) P-3, Q-2, R-1, S-4
- (D) All of the above

- 44. In UNIX, when the read system encounters EOF, it returns
 - (A) Some positive integer
 - (B) Positive integer related to error code
 - (C) 0
 - (D) -1
- **45.** Which of the following regular expression identities are true?
 - (A) $(r')^1 = r$
 - (B) $(r's')^1 = (r+s)^1$
 - (C) $(r+s)^1 = r'+s'$
 - (D) r's' = r' + s'
- **46.** The message 11001001 is to be transmitted using the CRC polynomial $x^3 + 1$ to protect it from errors. The message that should be transmitted is
 - (A) 11001001000
 - (B) 11001001011
 - (C) 11001010
 - (D) 110010010011

- **47**. is black box testing method.
 - (A) Boundary value analysis
 - (B) Basic path analysis
 - (C) Code validation analysis
 - (D) All of the above
- 48. If the hamming distance is 'm' then the number of errors that can be corrected is
 - (A) Equal to 'm'
 - (B) Less than m/2
 - (C) Equal to 2 m
 - (D) Greater than 2 m
- 49. What is the maximum number of I/O devices that can be interfaced to 8085?
 - (A) 64
- (B) 8
- (C) 32
- (D) 256
- **50.** Compression Ratio is defined as
 - (A) 1 (compressed size/uncompressed size)
 - (B) compressed size/uncompressed size)
 - (C) 1 (compressed data rate/ uncompressed data rate)
 - (D) All of the above

- Student Bounty.com 51. Neural Networks are models of
 - (A) Decision making system
 - (B) Data processing system
 - (C) Control systems
 - (D) Biological nervous systems

Question No.'s 52 and 53

Disk requests come to a disk drive for cylinders 10, 22, 20, 2, 40, 6 and 36 in that order at a time when the disk drive is reading from cylinder 20. The seek time is 6 ms per cylinder. The disk can be rotated either clockwise or counter clockwise.

- 52. The total seek time if the disk arm scheduling algorithm is first-cum-firstserved.
 - (A) 360 msec.
 - (B) 850 msec.
 - (C) 876 msec.
 - (D) 900 msec.
- 53. If the scheduling algorithm is closest cylinder next, then the total will be
 - (A) 360 msec.
 - (B) 876 msec.
 - (C) 900 msec.
 - (D) 330 msec.

Question No.'s 54, 55 and 56

The next three questions are based on Huffman's coding for the symbol A with probability 0.3, B with 0.15, C with 0.1, D with 0.25 and E with 0.2.

- 54. The minimum number of bits required to represent B is
 - (A) 1
- (B) 2
- (C) 3
- (D) 4
- **55.** The minimum number of bits required to represent all the symbols together is
 - (A) 14
 - (B) 11
 - (C) 12
 - (D) 15
- **56.** The average code length of the given problem is
 - (A) 2
 - (B) 2.25
 - (C) 2.45
 - (D) 3
- **57.** Character Recognition is application of
 - (A) Fuzzy Logic
 - (B) Neural Networks
 - (C) Genetic Algorithm
 - (D) Logic

- SHIIdenHounty.com 58. Inference Engine consists of
 - I. Facts
 - II. User Interface
 - III. Search
 - IV. Domain Expert
 - (A) I, II
 - (B) II, III
 - (C) I, III
 - (D) II, IV
- **59.** With regarding to exceptions following is **TRUE**
 - (A) Raised by program
 - (B) Raised by user
 - (C) Raised by OS
 - (D) Raised by program and OS
- **60.** Which of the following concurrency control protocols ensure both conflict serializability and freedom from dead deadlock
 - I. 2 phase locking
 - II. Time-stamp ordering
 - (A) I only
 - (B) II only
 - (C) Both I and II
 - (D) Neither I nor II

- **61.** The following system calls are related to file operations in UNIX
 - I. Signal
 - II. Kill
 - III. Seek
 - IV. Unlink
 - (A) I and III correct
 - (B) III and IV correct
 - (C) II and III correct
 - D) II and IV correct
- **62.** HTML (Hyper Text Markup Language) has language elements which permit certain actions other than describing the structure of the web document. Which one of the following actions is not supported by pure HTML (without any server or client side scripting) pages ?
 - (A) Embed web objects from different sites into the same page
 - (B) Refresh the page automatically after a specified interval
 - (C) Automatically redirect to another page upon download
 - (D) Display the client time as part of the page

- StudentBounty.com **63.** Search engine is a
 - (A) Learning
 - (B) Negotiation
 - (C) Intelligent
 - (D) Business
- 64. The commonly used UNIX commands like date, Is, cut etc. are stored in
 - (A) / dev directory
 - (B) / sys directory
 - (C) / unix directory
 - (D) / bin and /usr/bin directory
- 65. ADO stands for
 - (A) Active × Data Object
 - (B) Active × Dynamic Object
 - (C) Active × Downloadable Object
 - (D) Active × Durability Object
- **66.** If f is a linear transformation from the plane to the real numbers and if f(1, 1) = 1 and f(-1, 0) = 0 then f(3, 5) =
 - (A) 6
 - (B) 5
 - (C) 0
 - (D) 9

67. Fuzzy Logic is proposed by

- (A) MAMDHANI
- (B) ZADEH
- (C) MUZIMITO
- (D) TANAKA
- 68. If the inorder and postorder traversal results of a binary tree are A, C, B, F, E, D, G and A, B, C, E, G, D, F respectively. Identify the root node of it.
 - (A) A
 - (B) D
 - (C) C
 - (D) F

69. NLP includes problems

- (A) in which the objective function is linear but some constraints are not linear
- (B) in which the constraints are linear but the objective function is not linear
- (C) in which both the objective function and all the constraints are not linear
- (D) all of the above

- 70. Class C is inherited from Class
 Class B, Class D is inherited from Class
 Which of the following is true?
 - I. Class C inherits Class A attributes
 - II. Class C inherits Class B attributes
 - III. Class D inherits Class B attributes only
 - IV. Class D inherits Class A attributes only
 - (A) I, II
 - (B) I, II, III, IV
 - (C) I, III
 - (D) None of the above
- 71. Which of the following is an assertion?
 - (A) P is true, P and Q are true and K or not (Q) is true implies K is true
 - (B) P is true, P and Q are true and K or not (Q) is true implies K is false
 - (C) P is true, P and Q are false and K or not (Q) is true implies K is true
 - (D) P is true
- **72.** In 8085, the addressing mode used for LDAX rp instruction is
 - (A) Direct
 - (B) Indirect
 - (C) Register
 - (D) Immediate

- **73.** Given an arbitrary Non-deterministic Finite Automation (NFA) with N states, the maximum number of states in an equivalent minimized DFA is atleast
 - (A) N²
 - (B) 2^N
 - (C) 2N
 - (D) N!
- **74.** The maximum packet size of IPV_4 is
 - (A) 1500 bytes
 - (B) 2 MB
 - (C) 65535 bytes
 - (D) 48 bytes

- 75. Which of the following statement TRUE about an SQL query ?
 - P: An SQL query can contain a HAVING clause even if it doesnot have a GROUP by clause.
 - Q: An SQL query can contain a HAVING clause only if it has GROUP by clause.
 - R: All attributes used in the GROUP by clause must appear in the SELECT clause.
 - S: Not all attributes used in the GROUP by clause need to appear in the SELECT clause.
 - (A) P and R
- (B) P and S
- (C) Q and R
- (D) Q and S



Space for Rough Work