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4. ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಗೂ(A), (B), (C) ಮತ್ತು(D) ಎಂದು ಗುರುತಿಸಿದ ನಾಲ್ಕು ಪರ್ಯಾಯ Booklet will be replaced nor any extra time will be g	iven.
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ನೀವು ಹಿಂತಿರುಗಿಸಬೇಕು ಮತ್ತು ಪರೀಕ್ಷಾ ಕೊಠಡಿಯ ಹೊರಗೆ OMR ನ್ನ ನಿಮ್ಮೊಂದಿಗೆ at the end of the examination compulsorily and must	NOT
<sup>സംഗ്രദ്ധാഡുങ്ങൾഡ.</sup>   carry it with you outside the Examination Hall.	סוער
ನಿಮ್ಮೆಂದಿಗೆ ತೆಗೆದುಕೊಂಡು ಹೋಗಬಹುದು.	
11. ನೀಲಿ/ಕಪ್ಪು ಬಾಲ್ಪಾಯಿಂಟ್ ಪೆನ್ ಮಾತ್ರವೇ ಉಪಯೋಗಿಸಿರಿ. 11. Use only Blue/Black Ball point pen.	
12. ಕ್ರಾಲ್ಕುಲೇಟರ್ ಅಥವಾ ಲಾಗ್ ಟೇಬಲ್ ಇತ್ಯಾದಿಯ ಉಪಯೋಗವನ್ನು ನಿಷೇಧಿಸಲಾಗಿದೆ.  12. Use of any calculator or log table etc., is prohibited.	
113. ਸਰੋ ಅಲ್ಲದ ಉತ್ತರಗಳಿಗೆ ಋಣ ಅಂಕ ಇರುವುದಿಲ್ಲ. 14. ಕನಡ ಮತ್ತು ಇಂಗೀಷ್ ಆವತಿಗಳ ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಗಳಲ್ಲಿ ಯಾವುದೇ ರೀತಿಯ ವತ್ತಾ ಕಗಳು 14. In case of any discrepancy found in the Kanr	ada
ಕಂಡುಬಂದಲ್ಲಿ, ಇಂಗ್ಲೀಷ್ ಆವೃತ್ತಿಗಳಲ್ಲಿರುವುದೇ ಅಂತಿಮವೆಂದು ಪರಿಗಣಿಸಬೇಕು.   translation of a question booklet the question in En	jlish
K-2415	.0.

## COMPUTER SCIENCE AND APPLICATIONS Paper – II

- Note: This paper contains fifty (50) objective type questions. Each question carries two (2) marks. All questions are compulsory.
  - Let X and Y be two sets having n elements each. Then the total number of bijective functions from X and Y is

     (A) n
     (B) 2n
    - (C) n! (D)  $2^n$
  - 2. Two finite sets have m and n elements. The total number of subsets of the first set is 56 more than that of the total number of subsets of the second. The values of m and n are
    - (A) 7,6 (B) 6,3
    - (C) 5, 1 (D) 8, 7
  - **3.** Let P, Q and R be three languages. If P and R are regular and if PQ = R, then
    - (A) Q has to be regular
    - (B) Q cannot be regular
    - (C) Q need not be regular
    - (D) Q has to be a CFL
  - 4. Suppose that a connected plane graph has 20 vertices each of degree 3. How many regions, does a representation of this planar graph split the plane ?
    - (A) 6 (B) 9
    - (C) 11 (D) 12
  - **5.** ? in regular expression indicates
    - (A) Matches any character
    - (B) Matches zero or more instances of the previous pattern item
    - (C) Matches one or more instances of the previous pattern item
    - (D) Matches zero or one instances of the previous pattern item
  - **6.** The proposition  $\neg(P \land Q) \Leftrightarrow (\neg P \lor \neg Q)$  is
    - (A) Tautology (B) Contradiction
    - (C) Contingency (D) Not valid

- 7. Minimize the following Boolean function using Karnaugh map :  $F(w,x,y,z) = \sum (0, 1, 2, 4, 5, 6, 8, 9, 12, 13, 14)$ (A) y' + w'z' + xz' (B) y' + w'yz' + xyz'(C) y' + z' (D) y' + w' + w'
- 8. How many BCD adder stages are needed for a decimal parallel adder that adds 'n' decimal digits ? Assume that the output carry from one stage must be connected to the input carry of the next higher-order stage.
  - (A) n-1 (B) n (C) n+1 (D) 2n
- 9. The floating-point representation is defined in IEEE standard
  (A) 541
  (B) 633
  - (C) 754 (D) 802
- **10.** Consider a combinational circuit designed using ROM that accepts a 3-bit number and generates an output binary number equal to the square of the input number. What is minimum size of the ROM ?
  - (A) 3 × 4 (B) 3 × 8
  - (C)  $8 \times 4$  (D)  $8 \times 8$
- 11. Assume a = 10, b = 20 and c = 0 of integer type variables. To find the addition of a and b without using arithmetic operators, which of the following code is correct ?
  - (A) a++; while (b--)
  - (B) while (b+ +) a++;
  - (C) b – ; while (a++)
  - (D) while (b − −) a++ ;

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- **12.** Given below are some statements about the default (0-argument) constructor :
  - I) Its return type is the type of the class.
  - II) It has no return type.
  - III) The programmer can define it, but the C++ language doesn't require this.
  - IV) The programmer must define it.
  - V) It is always defined by C++ if it isn't provided by the programmer.
  - VI) It is sometimes, but not always, defined by C++ if it isn't provided by the programmer.

Which of the statements are true ?

- (A) I, III and V only
- (B) I, II and VI only
- (C) II and IV only
- (D) II, III and VI only
- **13.** When an ADT is implemented as a C++ class, which of the following should normally be true ?
  - (A) Member functions are private, member variables are public.
  - (B) Member functions are public, member variables are private.
  - (C) Member functions as well as member variables are private.
  - (D) Member functions as well as member variables are public.
- 14. What is Shallow Copy ?
  - (A) A Shallow Copy creates a copy of the dynamically allocated objects too
  - (B) A Shallow Copy creates a copy of the statistically allocated object too
  - (C) A Shallow Copy just copies the value of the data as they are
  - (D) Both B) and C)

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- **15.** Assume that the random number generating function rand (), returns an integer between 0 and 10000 (both inclusive). To randomly generate a number between a and b (both inclusive), use the expression
  - (A) rand () % (b a)
  - (B) (rand () % a) + b
  - (C) (rand () % (b a)) + a
  - (D) (rand () % (b a + 1)) + a
- **16.** Logical data independence in the threeschema architecture means :
  - The capacity to change the conceptual schema without having to change external schema or application programs.
  - 2) The capacity to change the internal schema without having to change the conceptual schema.

Which of the following statement is true about the logical data independence :

- (A) Both statements, 1) and 2) are true
- (B) Neither statement 1) nor statement2) is true
- (C) Only statement 2) is true
- (D) Only statement 1) is true
- 17. A key K of a relation schema R is :
  - 1) A superkey of R.
  - Removing any attribute A from K leaves a set of attributes K' that is not a superkey of R.

Which one of the following is correct about a key ?

- (A) Only statement 1) need to be satisfied
- (B) Only statement 2) need to be satisfied
- (C) Both statement 1) and 2) need to be satisfied
- (D) Neither statement 1) nor statement2) need to be satisfied

- 18. From the following statements :
  - A superkey SK defines a uniqueness constraint that no two distinct tuples in any state r of R can have the same value for SK.
  - 2) A relation schema may have more than one key. In such a case, each of the keys is called a candidate key.
  - A database state that does not obey all the integrity constraints is called an invalid state.

Which one of the following is correct ?

- (A) All statements are true
- (B) Statements 1) and 2) are true, but statement 3) is false
- (C) Statements 1) and 3) are true, but statement 2) is false
- (D) Statements 2) and 3) are true, but1) is false
- 19. Note the following statements :
  - 1) The insert operation can violate entity integrity constraint or referential integrity constraint.
  - 2) The delete operation can violate only referential integrity.
  - Updating an attribute that is neither part of a primary key nor a foreign key usually causes no problems.

Which one of the following is correct about the statements ?

- (A) All statements are true
- (B) Statements 1) and 2) are true, but statement 3) is false
- (C) Statements, 2) and 3) are true, but statement 1) is false
- (D) Statements 1) and 3) are true, but statement 2) is false
- **20.** 'A' in the ACID property of the Database Management System stands for
  - (A) Accountability (B) Allowability
  - (C) Accessibility (D) Atomicity

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- 21. In a 2-dimentional matrix A, let m be the number of rows, n be the number of columns, ws be the word-size of the data item, lower bound of both row and column be 1 and let BA be the base-address of the matrix. If the matrix were to be stored using row-major representation, the memory location of the element A(i, j) can be found using the formula
  - (A) BA + [((m 1) \* i) + j] \* ws
  - (B) BA + [(m \* i) + (j 1)] \* ws
  - (C) BA + [(n ∗ (i − 1)) + j] ∗ ws
  - (D) BA + [(n \* (i 1)) + (j 1)] \* ws
- 22. In a Binary Tree, if the inorder and preorder traversing result in the sequence 5, 4, 6, 7, 8, 3 and 7, 4, 5, 6, 8, 3 respectively, the post-order traversing sequence is
  (A) 5, 6, 4, 8, 3, 7 (B) 5, 6, 4, 3, 8, 7
  (C) 5, 6, 4, 7, 3, 8 (D) 5, 6, 7, 4, 3, 8
- 23. The Quick sort algorithm :
  - 1) Worst case complexity is  $O(n^2)$
  - Average case complexity is O(n log<sub>n</sub>n)
  - 3) Performs badly when input elements are given in sorted order
  - Pivot element always divides the elements into two equal sized sub-arrays

Which of the following option are correct?

- (A) Statements 1), 2) and 4) are true, but statement 3) is false
- (B) Statements 1), 2) and 3) are true, but statement 4) is false
- (C) Statements 1) and 2) are true, but statements 3) and 4) are false
- (D) All statements are true

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- 24. Strassen's matrix multiplication algorithm :
  - 1) Complexity is  $O(n^3)$
  - 2) Complexity is  $O(n^{\log_2 7})$
  - 3) Decreases number of multiplication compared to traditional multiplication algorithm
  - 4) Uses divide and conquer technique
  - Which of the following option is correct?
  - (A) Statements 2), 3) and 4) are true, but statement 1) is false
  - (B) Statements 1), 3) and 4) are true, but statement 2) is false
  - (C) Statements 2) and 4) are true, but statements 1) and 3) are false
  - (D) Statements 2) and 3) are true, but statements 1) and 4) are false
- **25.** Consider the following Binary Search Tree :



If we delete the element 50, which element will replace the element 50 in the tree ?

- (A) 45
- (B) 75
- (C) Either 45 or 75
- (D) Neither 45 nor 75
- **26.** Consider the coding scheme for error correction in the following table :

Dataword	Codeword
00	00000
01	01011
10	10101
11	11110

The minimum Hamming distance of the coding scheme is

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

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- 27. What do routers use to segment LANs? (A) SNAP
  - (B) Logical addresses
  - (C) MAC addresses
  - (D) CDP
- **28.** A pure ALOHA network transmits 200-bit frames on a shared channel of 200 kbps. What is the throughput if the system (all systems together) produces 1000 frames per second ? (A) 50 (B) 135 (C) 200 (D) 270
- **29.** A network on the Internet has a subnet mask of 255.255.240.0. What is the maximum number of hosts it can handle? (A) 256 (B) 1024 (C) 256  $\times$  256 (D) 4096
- **30.** Suppose that the TCP congestion window is set to 18 KB and a timeout occurs. How big will the window be if the next four transmission bursts are all successful? Assume that the maximum segment size is 1 KB.
  - (A) 1 KB (B) 2 KB (C) 4 KB (D) 8 KB
- **31.** Consider the grammar :
  - $S \rightarrow ABSc/Abc$
  - $BA\!\rightarrow\!AB$  $Bb \rightarrow bb$
  - $Ab \rightarrow ab$
  - $Aa \rightarrow aa$

Which of the following sentences can be derived by this grammar?

- (A) abc (B) aab
- (C) abcc (D) abbc
- **32.** Match all the items in Group 1 with correct options from those given in Group 2 :
  - Group 1 P) Regular
    - Group 2 1) Syntax analysis
    - expression
      - 2) Code generation
  - Q) Pushdown automata R) Data flow
    - 3) Lexical analysis
  - analysis S) Register
- 4) Code optimization
- allocation
- (A) P 4, Q 1, R 2, S 3(B) P 3, Q 1, R 4, S 2
- (C) P 3, Q 4, R 1, S 2
- (D) P 2, Q 1, R 4, S 3

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- 33. YACC builds
  - (A) SLR parsing table
  - (B) Canonical LR parsing table
  - (C) LALR parsing table
  - (D) Operator-precedence
- **34.** A shift reduce parser carries out the actions specified within braces immediately after reducing with the corresponding rule of grammar :

 $S \rightarrow XXW \{ print "1" \}$ 

 $S \rightarrow Y \{ \text{print "2"} \}$ 

 $W \rightarrow SZ \{ print "3" \}$ 

What is the translation of XXXXYZZ using the syntax directed translation scheme described by the above rules?

- (A) 23131 (B) 11233
- (C) 11231 (D) 33211
- **35.** Recursive descent parsing is an example of
  - (A) Top-down parsers
  - (B) Bottom-up parsers
  - (C) Predictive parsing
  - (D) Both A) and C)
- **36.** What is the main difference between traps and interrupts ?
  - (A) How they are initiated
  - (B) The kind of code that is used to handle them
  - (C) Whether or not the scheduler is called
  - (D) How the operating system returns from them
- **37.** Once a program is compiled, it can be loaded for execution
  - (A) Only from the compiler generated starting address
  - (B) Anywhere in the main memory
  - (C) User needs to specify where the compiled code is to be loaded
  - (D) It is loaded starting from address 0 in the main memory
- **38.** What is the mechanism used to describe deadlocks ?
  - (A) Precedence graph
  - (B) Process state diagram
  - (C) Resource allocation problem
  - (D) Process control block

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- **39.** In Unix Is command, option-u indicates
  - (A) Prints in time sorted order
  - Prints the access time instead of modification time
  - (C) Prints the modification time instead of access time
  - (D) Prints the file size sorted order
- **40.** The following program : main ( )

if (fork ( ) > 0) sleep (100) ;

} results in the creation of

- (A) An orphan process
- (B) A zombie process
- (C) A process that executes forever
- (D) None of the above
- **41.** A graphic representation of an information system is called
  - (A) Flowchart
  - (B) Pictogram
  - (C) Data Flow Diagram
  - (D) Histogram
- 42. A company needs to develop software for one of the University. The software is expected to have 90000 lines of code. The multiplicative factor for this model is given as 3.6 for the software development on embedded system, while the exponentiation factor is given as 1.20. What is the estimated effort in Person-Months?
  (A) 324
  (B) 388.8
  - (A) 324 (B) 388.8 (C) 796.88 (D) 726.88
- **43.** Let us consider the following C program. Estimate the program volume using Halstead Method : main ()

int a, b, c, avg; scanf ("%d %d %d", &a, &b, &c); avg = (a + b + c)/3; printf("Average = %d", avg);

J	
(A) 370	(B) 320
(C) 346	(D) 366

(6)

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- **44.** \_\_\_\_\_ is a Black Box testing method.
  - (A) Boundary Value Analysis
  - (B) Basic path testing
  - (C) Code path analysis
  - (D) Top-down testing
- **45.** What is the appropriate pairing of items in the two columns listing various activities encounted in a software life cycle ?

	List – I	List – II
P)	Requirements	1) Module
	capture	development and
		integration

- Q) Design 2) Domain analysis
- R) Implementation 3) Structural and behavioural modeling
- 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) P 2, Q 3, R 4, S 1
- **46.** Which Act among the following gave legal validity to the electronic-commerce (e-commerce) in India ?
  - (A) Company Act
  - (B) Consumer Protection Act
  - (C) IT Act
  - (D) Cyber Act
- **47.** Amdahl's law broadly related to the following issue.
  - (A) Instruction stream and data stream
  - (B) Doubling of computers performance every eighteen months
  - (C) Memory hierarchy
  - (D) Bottleneck of sequential code for parallel processing

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- 48. Assume that a mobile service provider is allocated 124 slots in a Country. The frequency slots are in the uplink frequency range :  $Ch_1 : 890 \text{ MHz} \pm 100 \text{ KHz}$  $Ch_2 : 890.2 \text{ MHz} \pm 100 \text{ KHz}$ and so on till  $Ch_{124} : 915 \text{ MHz} \pm 100 \text{ KHz}$ . What is the spectrum allocated ? (A) 890 MHz (B) 100 KHz (C) 915 MHz (D) 25 MHz
  - **49.** The values for a given set of data are grouped into intervals. The intervals and corresponding frequencies are as follows :

Age	Frequency
1 – 5	200
5 – 15	450
15 – 20	300
20 – 50	1500
50 – 80	700
80 – 110	44

Compute an approximate median value for the data.

- (A) 36.4 years (B) 32.94 years
- (C) 28.6 years (D) 16.7 years
- **50.** A dishonest casino uses a fair die most of the time. However, it switches to a loaded die with a probability of 0.05 and switches back to the fair die with a probability 0.10. The fair die has a

probability of  $\frac{1}{6}$  of rolling any number.

The loaded die has P(1) = P(2) = P(3) = P(4) = P(5) = 0.10 and P(6) = 0.50. Calculate Emission probabilities for Fair (F) and Loaded (L) states.

(A) (2,3)	(B) $\left(\frac{1}{6}, 0.8\right)$	5)
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(C) (3,2) (D) (4,5)

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