## PAPER-II COMPUTER SCIENCE

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4. 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) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D		
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the correct response against each item.  Example: (A) (B) (D) (D) (Where (C) is the correct response.  5. Your responses to the items are to be indicated in the OMR Sheet given inside the Paper I Booklet only. If you mark at any place other than in the circle in the OMR 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, Roll Number, Phone Number or put any mark on any part of the OMR Sheet, except for the space allotted for the relevant entries, which may disclose your identity, or use abusive language or employ any other unfair means such as change of response by scratching or using white fluid, you will render yourself liable to disqualification.  9. You have to return the test question booklet and Original OMR Sheet to the invigilators at the end of the examination compulsorily and must not carry it with you outside the Examination Hall. You are, however, allowed to carry original question booklet and duplicate copy of OMR Sheet on conclusion of examination.  10. Use of any calculator or log table etc., is prohibited.  3atervu : (A) (B)		
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11. Use of any calculator or log table etc., is prohibited. प्रयोग वर्जित है ।	conclusion of examination.	
12. There is no negative marks for incorrect answers.  12. There is no negative marks for incorrect answers.		
		12. गलत उत्तरों के लिए कोई नकारात्मक अंक नहीं हैं ।

**D-87-14** 

P.T.O.

## COMPUTER SCIENCE

Paper – II

**Note:** This paper contains **fifty** (**50**) objective type questions of **two** (**2**) marks each. **All** questions are compulsory.

- 1. Consider a set  $A = \{1, 2, 3, \dots, 1000\}$ . How many members of A shall be divisible by 3 or by 5 or by both 3 and 5?
  - (A) 533

(B) 599

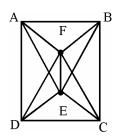
(C) 467

- (D) 66
- **2.** A certain tree has two vertices of degree 4, one vertex of degree 3 and one vertex of degree 2. If the other vertices have degree 1, how many vertices are there in the graph?
  - (A) 5

(B) n-3

(C) 20

- (D) 11
- **3.** Consider the Graph shown below :



This graph is a \_\_\_\_\_

(A) Complete Graph

(B) Bipartite Graph

(C) Hamiltonian Graph

- (D) All of the above
- 4. A computer program selects an integer in the set  $\{k : 1 \le k \le 10,00,000\}$  at random and prints out the result. This process is repeated 1 million times. What is the probability that the value k = 1 appears in the printout at least once?
  - (A) 0.5

(B) 0.704

(C) 0.632121

(D) 0.68

5. If we define the functions f, g and h that map R into R by:

 $f(x) = x^4$ ,  $g(x) = \sqrt{x^2 + 1}$ ,  $h(x) = x^2 + 72$ , then the value of the composite functions ho(gof) and (hog)of are given as

(A)  $x^8 - 71$  and  $x^8 - 71$ 

(B)  $x^8 - 73$  and  $x^8 - 73$ 

(C)  $x^8 + 71$  and  $x^8 + 71$ 

- (D)  $x^8 + 73$  and  $x^8 + 73$
- **6.** The BCD adder to add two decimal digits needs minimum of
  - (A) 6 full adders and 2 half adders
  - (B) 5 full adders and 3 half adders
  - (C) 4 full adders and 3 half adders
  - (D) 5 full adders and 2 half adders
- 7. The Excess-3 decimal code is a self-complementing code because
  - (A) The binary sum of a code and its 9's complement is equal to 9.
  - (B) It is a weighted code.
  - (C) Complement can be generated by inverting each bit pattern.
  - (D) The binary sum of a code and its 10's complement is equal to 9.
- 8. How many PUSH and POP operations will be needed to evaluate the following expression by reverse polish notation in a stack machine (A \* B) + (C \* D/E)?
  - (A) 4 PUSH and 3 POP instructions
- (B) 5 PUSH and 4 POP instructions
- (C) 6 PUSH and 2 POP instructions
- (D) 5 PUSH and 3 POP instructions
- **9.** The range of representable normalized numbers in the floating point binary fractional representation in a 32-bit word with 1-bit sign, 8-bit excess 128 biased exponent and 23-bit mantissa is
  - (A)  $2^{-128}$  to  $(1-2^{-23}) \times 2^{127}$
- (B)  $(1-2^{-23}) \times 2^{-127}$  to  $2^{128}$
- (C)  $(1-2^{-23}) \times 2^{-127}$  to  $2^{23}$
- (D)  $2^{-129}$  to  $(1-2^{-23}) \times 2^{127}$
- **10.** The size of the ROM required to build an 8-bit adder/subtractor with mode control, carry input, carry output and two's complement overflow output is given as
  - (A)  $2^{16} \times 8$

(B)  $2^{18} \times 10$ 

(C)  $2^{16} \times 10$ 

(D)  $2^{18} \times 8$ 

11. What will be the output of the following 'C' code?

```
main ( )  \{ int x = 128; \\ printf ("\n%d", 1 + x ++); \}
```

(A) 128

(B) 129

(C) 130

- (D) 131
- **12.** What does the following expression means?

```
char *(*(*a[N])())();
```

- (A) a pointer to a function returning array of n pointers to function returning character pointers.
- (B) a function return array of N pointers to functions returning pointers to characters
- (C) an array of n pointers to function returning pointers to characters
- (D) an array of n pointers to function returning pointers to functions returning pointers to characters.
- **13.** Which of the following is not a member of class?
  - (A) Static function

(B) Friend function

(C) Const function

- (D) Virtual function
- **14.** When an array is passed as parameter to a function, which of the following statements is correct?
  - (A) The function can change values in the original array.
  - (B) In C, parameters are passed by value, the function cannot change the original value in the array.
  - (C) It results in compilation error when the function tries to access the elements in the array.
  - (D) Results in a run time error when the function tries to access the elements in the array.

Which of the following differentiates between overloaded functions and override functions?								
(A)	Overloading is a dynamic or runtime binding and overridden is a static or compile time binding.							
(B)	Overloading is a static or compile time binding and overriding is dynamic or runtime binding.							
(C)	Redefining a function in a friend class is called overloading, while redefining a function in a derived class is called as overridden function.							
(D)	Redefining a function in a derived class is called function overloading, while redefining a function in a friend class is called function overriding.							
Divi	sion operation is ideally suited to har	ıdle que	eries of the type :					
(A)	customers who have no account in a	any of t	he branches in Delhi.					
(B)	customers who have an account at a	all branc	ches in Delhi.					
(C)	customers who have an account in a	atleast c	one branch in Delhi.					
(D)	customers who have only joint account in any one branch in Delhi							
Whi	Which of the following is true ?							
I.	Implementation of self-join is possible in SQL with table alias.							
II.								
III.	Natural join and outer join operations are equivalent.							
(A)	I and II are correct.	(B)	II and III are correct.					
(C)	Only III is correct.	(D)	Only I is correct.					
	What kind of mechanism is to be taken into account for converting a weak entity set into strong entity set in entity-relationship diagram?							
(A)	Generalization	(B)	Aggregation					
(C)	Specialization	(D)	Adding suitable attributes					
		, ,						
(A)	Boyce-Codd Normal form		Third Normal form					
(C)	Second Normal form	(D)	First Normal form					
			me R(A, B, C, D, E) with functional					
_			AE					
, ,		` ′	CE					
	func (A) (B) (C) (D)  Divi (A) (B) (C) (D)  While I. III. (A) (C)  What stror (A) (C)  The depertion of the	<ul> <li>functions?</li> <li>(A) Overloading is a dynamic or runting time binding.</li> <li>(B) Overloading is a static or compire runtime binding.</li> <li>(C) Redefining a function in a friend function in a derived class is called.</li> <li>(D) Redefining a function in a derive redefining a function in a friend class.</li> <li>(D) Customers who have no account in a function in a friend class.</li> <li>(E) Customers who have an account at a customers who have an account in a customers who have an account in a customers who have only joint accounts.</li> <li>(D) Customers who have only joint accounts.</li> <li>(E) Customers who have only joint accounts.</li> <li>(D) Customers who have only joint accounts.</li> <li>(E) Outer-join operation is basic operate.</li> <li>(E) Only III is correct.</li> <li>(E) Specialization.</li> <li>(E) Specialization.</li> <li>(E) Specialization.</li> <li>(E) Specialization.</li> <li>(E) Specialization.</li> <li>(E) Second Normal form.</li> </ul>	<ul> <li>functions?</li> <li>(A) Overloading is a dynamic or runtime binding.</li> <li>(B) Overloading is a static or compile time runtime binding.</li> <li>(C) Redefining a function in a friend class in function in a derived class is called as over the function in a derived class is called as over the function in a derived class is called in a friend class is called in a function in a friend class is called in a function in a friend class is called in a function in a friend class is called in a function operation in a friend class is called in a function operation in a friend class is called in a function operation in a function operation operation operation in a function operation o</li></ul>					

21.	Convert the following infix expression into its equivalent post fix expression						
	$(A + B^{\wedge}D) / (E - F) + G$						
	(A)	$ABD^{\wedge} + EF - / G+$	(B)	$ABD + ^EF - / G+$			
	(C)	ABD + ^EF / – G+	(D)	ABD^ + EF / – G+			
22.		have to sort a list L, consisting of a so ch of the following sorting method wo		ist followed by a few 'random' elements. most suitable for such a task?			
	(A)	Bubble sort	(B)	Selection sort			
	(C)	Quick sort	(D)	Insertion sort			
23.	The entri	-	_ that	translates filenames into their directory			
	(A)	Symbol table	(B)	Partition			
	(C)	Swap space	(D)	Cache			
<b>24.</b> Consider an array A[20, 10], assume 4 words per memory array A is 100. What is the address of A[11, 5]? Assume row				•			
	(A)	560	(B)	565			
	(C)	570	(D)	575			
25.	A fu	ll binary tree with n leaves contains					
	(A)	n nodes	(B)	log <sub>2</sub> n nodes			
	(C)	2n −1 nodes	(D)	2 <sup>n</sup> nodes			
26.	The	period of a signal is 10 ms. What is its	freque	ency in Hertz ?			
	(A)	10	(B)	100			
	(C)	1000	(D)	10000			
27.	In a	classful addressing, first four bits in Cl	lass A	IP address is			
	(A)	1010	(B)	1100			
	(C)	1011	(D)	1110			
Don	on II		6	D 97 1/			

<b>28.</b> Which of the following algorithms is not a broadcast routing algorithm?									
	(A)	Flooding	(B)	Multidestination routing					
	(C)	Reverse path forwarding	(D)	All of the above					
29.		An analog signal has a bit rate of 6000 bps and a baud rate of 2000 baud. How many data elements are carried by each signal element?							
	(A)	0.336 bits/baud	(B)	3 bits/baud					
	(C)	120,00,000 bits/baud	(D)	None of the above					
30.	How key '	· •	S algo	rithm, which is parameterized by a 56-bit					
	(A)	16	(B)	17					
	(C)	18	(D)	19					
31.	Shift	Shift-Reduce parsers perform the following:							
	(A)	Shift step that advances in the input stream by $K(K > 1)$ symbols and Reduce step that applies a completed grammar rule to some recent parse trees, joining them together as one tree with a new root symbol.							
	am by one symbol and Reduce step that recent parse trees, joining them together								
	(C)	Shift step that advances in the input stream by $K(K = 2)$ symbols and Reduce step that applies a completed grammar rule to form a single tree.							
	(D)	Shift step that does not advance in the input stream and Reduce step that applies a completed grammar rule to form a single tree.							
32.	Whi	hich of the following is true ?							
(A) Canonical LR parser is LR (1) parser with single look ahead terminal									
	(B)	All $LR(K)$ parsers with $K > 1$ can be	transf	ormed into LR(1) parsers.					
	(C)	Both (A) and (B)							
	(D)	None of the above							
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33.	In a	two-pass assembler, symbol table is						
	(A)	(A) Generated in first pass						
	(B)	Generated in second pass						
	(C)	Not generated at all						
	(D)	Generated and used only in second pass						
34.	Debi	agger is a program that						
	(A)	allows to examine and modify the contents of registers						
	(B)	does not allow execution of a segment of program						
	(C)	allows to set breakpoints, execute a segment of program and display contents of register						
	(D)	All of the above						
35.	The	following Context-Free Grammar (CFG):						
	$S \rightarrow aB \mid bA$							
	$A \rightarrow a \mid as \mid bAA$							
	$B \rightarrow b \mid bs \mid aBB$							
	will	generate						
	(A) odd numbers of a's and odd numbers of b's							
	(B)	even numbers of a's and even numbers of b's						
	(C)	equal numbers of a's and b's						
	(D)	different numbers of a's and b's						
36.	Cons	sider the following justifications for commonly using the two-level CPU scheduling:						
	I.	It is used when memory is too small to hold all the ready processes.						
	II.	Because its performance is same as that of the FIFO.						
	III.	Because it facilitates putting some set of processes into memory and a choice is made from that.						
	IV.	Because it does not allow to adjust the set of in-core processes.						

(B) I and II

(D) I and III

Which of the following is true?

(A) I, III and IV

(C) III and IV

37.	A specific editor has 200 K of program text, 15 K of initial stack, 50 K of initialized da and 70 K of bootstrap code. If five editors are started simultaneously, how much physic memory is needed if shared text is used?							
	(A)	1135 K	(B)	335 K				
	(C)	1065 K	(D)	320 K				
38.		ch of the following conditions does not lem?	ot hole	d good for a solution to a critical section				
	(A)	No assumptions may be made about s	speeds	or the number of CPUs.				
	(B)	No two processes may be simultaneous	ously i	nside their critical sections.				
	(C)	Processes running outside its critical	section	n may block other processes.				
	(D)	Processes do not wait forever to enter	its cr	itical section.				
39.	For the implementation of a paging scheme, suppose the average process size be <i>x</i> bytes, the page size be y bytes, and each page entry requires z bytes. The optimum page size that minimizes the total overhead due to the page table and the internal fragmentation loss is given by							
	(A)	$\frac{x}{2}$	(B)	$\frac{xz}{2}$				
	(C)	$\sqrt{2xz}$	(D)	$\frac{xz}{2}$ $\frac{\sqrt{xz}}{2}$				
40.	In a demand paging memory system, page table is held in registers. The time taken to service a page fault is 8 m.sec. if an empty frame is available or if the replaced page is not modified, and it takes 20 m.secs., if the replaced page is modified. What is the average access time to service a page fault assuming that the page to be replaced is modified 70% of the time?							
	16.4 m.sec.							
	(C)	28 m.sec.	(D)	14 m.sec.				
41.		are applied throughout the sof	tware	process.				
	(A)	Framework activities	(B)	Umbrella activities				
	(C)	Planning activities	(D)	Construction activities				

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Done	II	10 D 97 14
	(D)	P + 1, where P is the number of predicate nodes in the flow graph G.
	(C)	P-1, where P is the number of predicate nodes in the flow graph G.
	(B)	E-N+1, where E is the number of flow graph edges and N is the number of flow graph nodes.
	(A)	The number of regions – 1
45.	Whic	ch one of the following is used to compute cyclomatic complexity?
	(D)	Programming language dependent
		Consistent in the use of units and dimensions
	(B)	Consistent and objective
	(A)	Simple and computable
44.	softv	ch one of the following set of attributes should not be encompassed by effective ware metrics?
	(D)	Requirement
	(C)	Process
	(B)	Architecture
	(A)	Design
43.	of th	software of a program or a computing system is the structure or structures e system, which comprise software components, the externally visible properties of e components, and the relationships among them.
	(D)	Optimized
	(C)	Defined
	(B)	Managed
	(A)	Performed
42.	Man	agement and Integrated Supplier Management are process areas required to achieve rity level

	S1:	: A hard handover is one in which the channel in the source cell is retained and used for a while in parallel with the channel in the target cell.							
	S2:	A soft handover is one in which the channel in the source cell is released and only then the channel in the target cell is engaged.							
	(A)	S1 i	s true	and S	2 is no	t true.	(B)	S1 is not true and S2 is to	rue.
	(C)	Botl	n S1 a	and S2	are tru	e.	(D)	Both S1 and S2 are not to	rue.
47.	Fact-	-less t	fact ta	able in	a data	warehou	use contains		
	(A)	only	mea	sures			(B)	only dimensions	
	(C)	keys	s and	measu	ires		(D)	only surrogate keys	
48.		ch e-		ess m	odel al	lows co	onsumers to	name their own price for	or products and
	(A)	B2 l	В				(B)	B2 G	
	(C)	C2 (	C				(D)	C2 B	
49.	custo	omers				_	o bring priculated bring	ees down by increasing	the number of
	(A)	Eco	nomi	c Orde	er Quan	tity	(B)	Inventory	
	(C)	Data	a Min	ing			(D)	Demand-Sensitive Pricing	g
50.	Mato	ch the	follo	wing	:				
			List -	– I		4/1	100	List – II	
	a.	Call	cont	rol pro	otocol	i.		between Base Transceiv Base Station Controller (F	
	b.	A-b	is	(	11	ii.	Spread spe	ctrum	
	c.	BSN	ИАР		3.1	iii.	Connection	n management	
7	d.	CDI	MA	1	, ,	iv.		etween Mobile Switchin I Base Station Subsystem (	ng Centre
	Cod	es:			V		(1/10/0) Will	z z doc z tutzen z des jetem (	,222)
		a	b	c	d				
	(A)	iii	iv	i	ii				
	(B)	iii	i	iv	ii				
	(C)	i	ii	iii	iv				
	(D)	iv	iii	ii	i				
n e	7-14					_	11		Daman II
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**46.** Consider the following statements S1 and S2:

## Space For Rough Work

