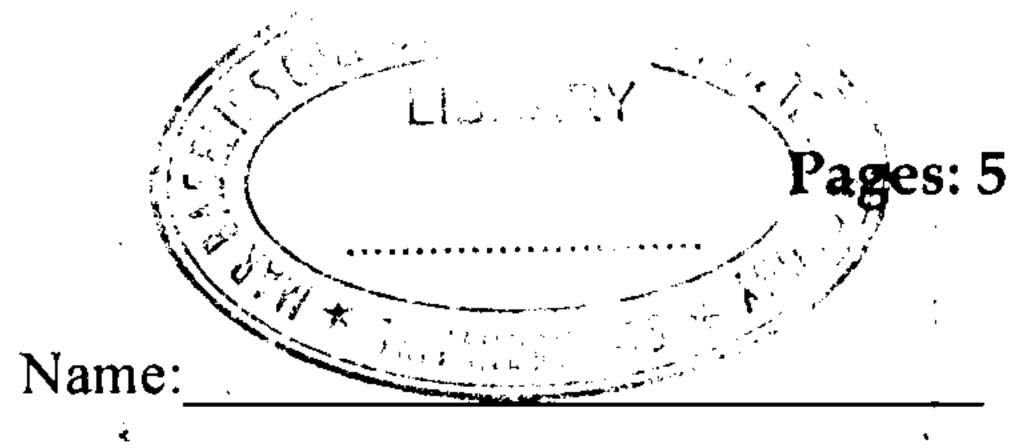
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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY SIXTH SEMESTER B.TECH DEGREE EXAMINATION, APRIL 2018

Course Code: CS352
Course Name: COMPREHENSIVE EXAM (CS)

(A) F _x = 0(B) F _y = 0 (C)F _z = 0 D)All of the above The theorem of Pappus and Guldinus is used to find (A) Surface area of the body of revolution (B) Surface area of the body of linear motion (C) Surface area of the body of rectangular motion (D) None of these In isometric projection the angles between the projection of the axes is (in degrees) (A) 150 (B) 120 (C) 90 (D) 180 If a point P is below HP and behind VP then in which quadrant does P lie? (A) First (B) Second (C) Third (D) Fourth In which year, Water Act (Prevention and Control of pollution) was introduced in India? (A) 1975 (B) 1974 (C) 1998 (D) 1988 Which among the following is a conventional source of energy? (A) Tidal (B) Solar (C) Coal energy (D)Wind The process of building a model of the system to be built is known as (A)Planning (B)Design (C)Prototyping (D)Estimation The technique wherein an object is inspected in detail to identify its components and their interrelationships with the aim of rebuilding or enhancing the object is known as (A) Reverse Engineering (B)Software Engineering		Course Name: COMPREHENSIVE EXAM (CS)				
(1) Each question carries one mark. No negative marks for wrong answers (2) Total number of questions: 50 (3) All questions are to be answered. Each question will be followed by 4 possible answers of which only ONE is correct. (4) If more than one option is chosen, it will not be considered for valuation. (5) Calculators are not permitted Let f(x,y) = x² - y². Which of the following is true? (A) f has a maximum at (0,0) (B) f has a maximum at (0,0) (C) (0.0) is neither a maximum point nor a minimum point (D) None of these The differential equation $\left(\frac{d^2y^3}{dx^2}\right)^3 + \frac{dy}{dx} = \sin x$ is of (A) Order 2, degree 3 (B) Order 3, degree 2 (C) Order 3, degree 3 (D) Order 2, degree 2 (C) Order 3, degree 3 (D) Order 2, degree 2 For the equilibrium in three dimensional system of axis, which of the following is true? (A) F _x = 0(B) F _y = 0 (C) F _x = 0 D) All of the above The theorem of Pappus and Guldinus is used to find (A) Surface area of the body of revolution (B) Surface area of the body of linear motion (C) Surface area of the body of linear motion (C) Surface area of the body of rectangular motion (D) None of these In isometric projection the angles between the projection of the axes is (in degrees) (A) 150 (B) 120 (C) 90 (D) 180 If a point P is below HP and behind VP then in which quadrant does P lie? (A) First (B) Second (C) Third (D) Fourth In which year, Water Act (Prevention and Control of pollution) was introduced in India? (A) 1975 (B) 1974 (C) 1998 (D) 1988 Which among the following is a conventional source of energy? (A) Tidal (B) Solar (C) Coal energy (D)Wind The process of building a model of the system to be built is known as (A) Planning (B) Design (C) Prototyping (D) Estimation The technique wherein an object is inspected in detail to identify its components and their interrelationships with the aim of rebuilding or enhancing the object is known as (A) Reverse Engineering (B)Software Engineering	Ma	x. Marks: 50 Duration: 1 Hour				
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The technique wherein an object is inspected in detail to identify its components and their interrelationships with the aim of rebuilding or enhancing the object is known as (A) Reverse Engineering (B)Software Engineering	9	The process of building a model of the system to be built is known as				
interrelationships with the aim of rebuilding or enhancing the object is known as (A) Reverse Engineering (B)Software Engineering		(A)Planning (B)Design (C)Prototyping (D)Estimation				
(A) Reverse Engineering (B)Software Engineering	10	The technique wherein an object is inspected in detail to identify its components and their				
(A) Reverse Engineering (B)Software Engineering		interrelationships with the aim of rebuilding or enhancing the object is known as				
		(A) Reverse Engineering (B)Software Engineering				
(C)Inspection (D)Object Analysis		(C)Inspection (D)Object Analysis				

11	If $f(x) = 4x + 9$ and $g(x) = x^3$, then determined functions.	nine (f o g)x. Here	o represents composition o			
	$(A)(4x+9)^3$ (B) $4x + 9$	(C) $4x^3 + 9$	(D) $64x + 9$			
12	Consider the two statements below:					
	S1: Every group of prime order is	_				
	S2: Every cyclic group is Abelian	n				
	Pick the correct option					
	(A) Both S1 and S2 are false	(B) Bo	oth S1 and S2 are true			
13	(C) S1 is true but not S2 Let 'f' be a function defined from set A to	` '	is true but not S1 nalities of domain and range o			
1.5	Let 'f' be a function defined from set A to set B. If the cardinalities of domain and range of 'f' are					
	'm' and 'n' respectively, then which of the	ne following is true	?			
	(A) $m = n$ (B) $m > n$	(C) m < n	$(D)m \le n$			
14	A relation R is defined on integers by					
	aRb if and only if $ a - b = 3$.					
	What can you say about R?					
	(A) R is irreflexive and antisymme					
	(B) R is symmetric and transitive					
	(C) R is antisymmetric and transit					
15	(D) R is irreflexive and symmetric	3				
13	Which of the following is valid? (A) near he derived from the set of premises $\{(n \rightarrow a), (a \rightarrow r), (a \rightarrow r)\}$					
	(A) p can be derived from the set of premises $\{(p \rightarrow q), (q \rightarrow r), (\sim q^r)\}$ (B) $\sim q$ can be derived from the set of premises $\{(p \rightarrow q), \sim p\}$					
	(C) $(p \rightarrow (q^r))$ can be derived from					
	(D) q can be derived from the set	-				
1.0						
16	The solution to the recurrence $a_n = a_{n-1} + (n - 1)$ with $a_1 = 0$ is					
	$(A)\frac{n(n+1)}{2}$					
	$(B)^{\frac{n(n-1)}{2}}$					
	$\binom{n+2}{(C)} \frac{(n+2)(n+1)}{n}$					
	2					
	$(D)\frac{n(n+3)}{2}$					
17	Let $f(n)$ and $g(n)$ be two functions such that $f(n) \le g(n)$ for all values of n. Then					
	(A) $f(n) = \Theta(n)$	(B) f(n) = w(n)			
	(C) $f(n) = O(n)$	(D) $f(n) = \Omega(n)$			
18	Which of the following suffers from the p					
	(A)Singly linked list	•	B)Doubly linked list			
4.0	(C)Circular linked list	•	D)Linked list with header node			
19	Assume you have a stack implemented w	•				
	numbered from 0, the stack underflow ca					
	(A)TOP = SIZE $(C)TOP = SIZE - 1$	` '	$ OP = -1 \\ OP = 0 $			
20	A complete binary tree is represented using	` '				
20	1 1 John Proce official 2 from 12 represented asi		Pooreron in it, in			

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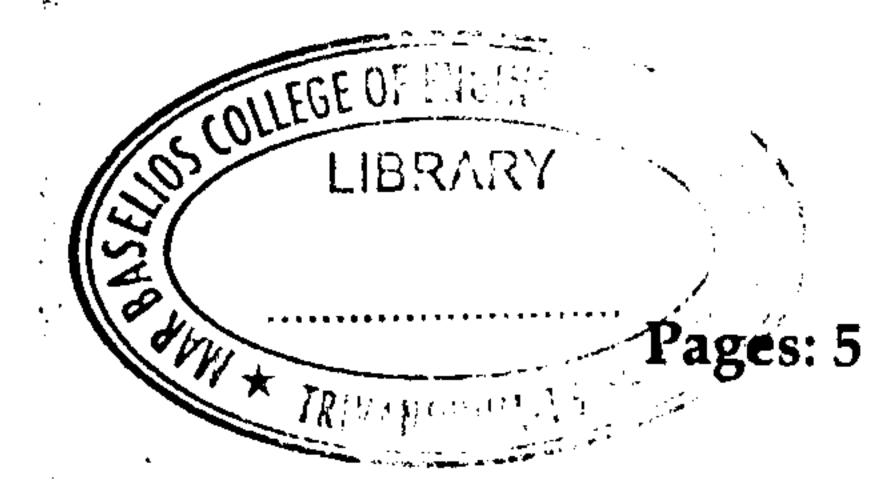
	right child can be found at which position? (A) k+1 (B) 2k	(The array index state) (C) 2k-1	arts from 1) (D) 2k+1			
21	A binary search tree is constructed out of the traversal of this tree is (A) 5, -1, 2, 30, 15, 12, -87 (B) 5, 2, -1, 15, 30, 12, -87 (C) -87, -1, 2, 5, 12, 15, 30 (D) -1, 2, 5, 30, 12, 15, -87	e kéys 5, -1, 12, 30), 15, 2, -87. The inorder			
22	Depth first algorithm can be implemented u	sing				
23	(A) Heap (B)Stack (C)Queue (D)Deque The sorting technique in which the smallest element from the unsorted sublist is swapped with the element at the beginning of the unsorted sublist is (A)Selection sort (B)Insertion sort (C)Quick sort (D)Bubble sort					
24	The instruction MOV A,#20 uses which add	lressing mode?				
	(A)Register mode	(B)Absolute mo	ode			
	(C)Immediate mode	(D)Relative mod	le			
25						
	(A) EQU (B)ORIGIN	(C)DATAWOR	D (D)ADD			
26	SCSI stands for (A)Simple computer serial interface (C)Serial controller for system interf		computer system interface e computer serial interface			
27	A static RAM cell contains					
	(A) Transistor (B) Capacitor	(C)Inverter	(D) Register			
28	A block-set associative cache memory const The main memory consists of 16,384 blocks How many bits are required for addressing to	and each block co				
	(A)22 $(B)20$	(C) 32	(D)36			
29	PLA means	/ \	• • •			
	(A) Programmed Large Array	` '	mable Logic Array			
20	(C)Programmed Long Array Microprogram sequencer is used in	(D)Program	mable List Array			
0	(A) Memory organization (C) Control unit design	(B)Accumulator design (D)None of these				
31	Consider a system with 'n' processes and 'n	n' CPUs (n > m). V	Vhat is the maximum			
	number of processes that can be in running s	state?				
		C)n	(D)m			
2	Belady's anomaly occurs in which algorithm		1 • . 1			
	(A)Optimal algorithm	(B)FIFO a				
2	(C)SSTF algorithm Banker's algorithm is used in	(D)Elevato	or algorithm			
, ,	(A) Deadlock prevention	(B) Deadle	ock avoidance			
	(C) Deadlock detection	• /	ock recovery			

A counting semaphore is initialized to 4. Then 8 P(wait) and 3 V (signal) operations are performed on the semaphore. The final value of the semaphore is

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Pages: 5



(C) If-else matching

(D)String matching

- Pick the true statement
 - (A) The language $L = \{a^n \mid n \le 1000\}$ is regular
 - (B) DFA is more powerful than NFA
 - (C) Deterministic PDA is more powerful than non deterministic PDA
 - (D) Non deterministic TM is powerful than deterministic TM
- The number of states in the DFA to accept binary strings whose length is divisible by 5
 - (A)4
- (B)5
- (C)6
- (D)3
- Context free languages are not closed under
 - (A) Intersection
- (B) Union
- (C)Reversal
- (D)Kleene closure
- Which of the strings cannot be generated using the expression (a*b)*a*?
 - (A) aaaaaaa (B) abaaa
 - (C) abab (D)aaaaaba
- A grammar whose productions are of the form $A \rightarrow BC$ is in what normal form?
 - (A) Chomsky normal form (B) Greibach normal form
 - (C) Both (A) and (B)

(D) Neither (A) nor (B)
