Computer Science and Applications

PAPER-II

Note: This paper contains fifty (50) objective-type questions, each question carrying two (2) marks. Attempt all of them

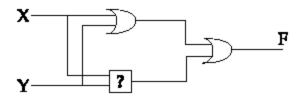
1.	T is a graph with n vertices. T is connected and has exactly n-1 edges, then :													
	(A)	T is a tree												
	(B)	T contains no cy	cles											
	(C)	Every pairs of vertices in T is connected by exactly one path												
	(D)	All of these												
2.	If the	eproposition 7P:	⇒Q is true	, then	the t	uth value of the	romo	rtion 7PV(P⇒Q)						
	(A)	True		(B)	Mult	i - Valued								
	(C)	Flase		(D)	Can	not determined								
3.	Let /	A and B be two a	bitrary eve	nts. th	en									
		$P(A \cap B) = P(A)$	-			(B) = P(A) + P(A)	'B\							
				(D) $P(A/B) = P(A \cap B) + P(B)$										
	(-)	1(A > D) 2 1(A)	11 (1)	*	1 (11)	D) = 1(A(1)) 1	1 (1)							
4.	Whi	ch sentence can b	e generated	by S	\rightarrow d/	$bA, A \rightarrow d/ccA :$								
	(A)	bccddd (F	aabcod		(C)	ababeed	(D)	abbbd						
5.	Regu	ılar expression a	- b denotes	the se	t:									
	(A)	(B)	{ε, a, b}		(C)	{a, b}	(D)	None of these						
6.	Whi	of the following	z is divisible	e hv 4	. 7									
		100101100				001110001								
	(C)	11110011		(D)		1010101010								
	(-)			(-)										
7.	A ha	l f -adder is also k	nown as:											
	(A)	AND Circuit		(B)	NAN	VD Circuit								
	(C)	NOR Circuit		(D)	EX-C	OR Circuit								

8.	Compident	Lb a fall are		of instructions	
ο.	Consider	tile lohow.	miz seduence	or mistructions	Ξ

 $a = a \oplus b$, $b = a \oplus b$, $a = b \oplus a$ This Sequence

- (A) retains the value of the a and b
- (B) complements the value of a and b
- (C) swap a and b
- (D) negates values of a and b

9. Consider the following circuit:



to make it a Tautology the 🚺 should be :

- (A) NAND gate
- (B) AND gate
- (C) OR gate
- (D) EX-OR gate

10. When an inventor is placed between both inputs or an S-R flip flop, the resulting flip flop is :

- (A) JK flip-flop
- (B) D-flip-flop

(C) T flip-flop

(D) None of these

11. What is the output of the following C-program main ():

{print f("%d%d%d" size of (3.14f), size of (3.14), size of (3.141));}

- (A) 444
- (B) 4810
- (C) 848
- (D) 888

12. The bitwise OR of 35 with 7 in C will be:

- (A) 35
- (B) = 2
- (C) 42
- (D) 39

13. Data members and member function of a class by default is repectively:

- 🔼) private and public
- (B) public
- (C) public and private
- (D) private

14. Function over loading done at:

(A) Runtime

- (B) Compile time
- (C) Linking time
- (D) Switching from function to function

15.	What will be the value of i for the following expression : int $i=11$, $i=3$; i+=(f>3) ? i & 2:5;										
	(A)	• /	(B)	5		(C)	13		(D)	12	
16.	A sc	hema descri	ibes :								
	(A)	data eleme	ents		(B)	reco	rds and files	s			
	(C)	record rela	ationsl	hip	(D)	all o	f the above			0,	
17.	One approach to standarolizing storing of data :										
	(A)	MIS		_	(B)	COI	DASYL				
	(C)	Structured	Prog	raming	(D)	Non	e of the abo	ve	>,	•	
18.	In a	relational so	hema	. each tun	le is dir	zided	in fields al	lleď			
10.	(A)	Relations			mains	- 100-00		ries	(D)	All the above	
	(-)			(-)			CO		(-)		
19.	An e	embedded p	rinter	provides	:						
	(A)	•		-	(F)		nserted Ind	lex			
	(C)	A seconda	ry acc	ess path	(D)	All't	he above				
					()						
20.		cked file car		1							
	(A)			7 . •							
	(B)	modified b	-			_	swora				
	(C) (D)	is used to l both (B) a			morina	uon					
	(1)	Dout by a	u (C)								
21.			every	node the	height	of its 1	eft subtree a	and rig	ht sul	btree differ at least	
	bу о (А)	Binary sea	rch tr	00	(B)	Δ3/Τ	tree				
7	(C)	Threaded			(D)		plete tree				
	(-)	1111CH CCC		400	(2)		.p.ccc dec				
22.		key 37,38,72	-			-		_	_	it is used to insert ill be the locations	
	(A)	3	(B)	4		(C)	5		(D)	6	
$\mathbf{D} - \mathbf{i}$	8705					4					

Cons	sider the graph, v	vhich	of the follor	wing i	s a va	lid topolog	ical so	rting	?
(A)	Q								
B	(c)								
(A)	ABCD	(B)	BACD		(C)	BADC		(D)	ABDC
							To ge	et the	configuracion
(A)	2 deletions, 3 ad	lditior	าร	(B)	3 de	letions, 2 ad	íditio	s	
(C)	3 deletions, 4 ad	lditior	าร	(D)	3 de	letions, 3 ac	íditior	าร	
		_					7	•	
		iques	lists the no				cree in	. ascer	iding order?
`					_				
(C)	pre - order			(D)	Ш	ar order			
The	data unit in the 1	rcp/i	P applicatio	n La	er is	called a			
								(D)	frame
` ′	Ü	` /		•	• ′			` ′	
Whi	ch of following fi	le retr	ieval metho	ds us	e hype	ermedia ?			
(A)	HTML	(B)	Veronica	•	(C)	WAIS		(D)	HTTP
Whi	ch of following is	an ex	ample of a	client	- serv	er model :			
(A)	DNS	(B)	FTP	(C)	TEL	NET	(D)	A11 t	he above
		a met	hod to reco	ver d	.ata ti	nat has bee	n deli	vered	but not get
				(B)	Con	catenation			
	Transalation						n		
				` /	,				
Incr	yption and decry	ption	are the fun	ctions	of th	e	laye	er of (OSI model :
(A)	transport	(B)	session		(C)	router	(D)	pres	entation
	_		nory locatio	n wh	ich co	ntains the	effect	ive ac	laress o f th e
(A)	Pointer			(B)		_	r		
(C)	Special Location	เร		(D)	Scra	tch Pad			
3705				5					P.T.O.
	(A) The (A) (C) Whi (A) Whi (A) Whi (A) The open (A) (C)	(A) ABCD The initial configuration d, c, b, a how many down (A) 2 deletions, 3 and (C) 3 deletions, 4 and (C) 3 deletions, 4 and (C) pre-order The data unit in the Town (A) message Which of following file (A) HTML Which of following is (A) DNS provide used: (A) Segmentation (C) Transalation Incryption and decry (A) transport The Register or main operand is known as (A) Pointer (C) Special Location	(A) ABCD (B) The initial configuration of a d, c, b, a how many deletio (A) 2 deletions, 3 addition (C) 3 deletions, 4 addition Which traversal techniques (A) post - order (C) pre - order The data unit in the TCP/I (A) message (B) Which of following file retrestion (A) HTML (B) Which of following is an example (B) Which of following is an example (B) The Register or main memoperand is known as: (A) Pointer (C) Special Locations	(A) ABCD (B) BACD The initial configuration of quaue is a, b, d, c, b, a how many deletions and add: (A) 2 deletions, 3 additions (C) 3 deletions, 4 additions Which traversal techniques lists the notation (A) post - order (C) pre - order The data unit in the TCP/IP application (A) message (B) segment Which of following file retrieval method (A) HTML (B) Veronical Which of following is an example of a contact (A) DNS (B) FTP provide a method to reconsed: (A) Segmentation (C) Transalation Incryption and decryption are the function (A) transport (B) session The Register or main memory location operand is known as: (A) Pointer (C) Special Locations	(A) ABCD (B) BACD The initial configuration of quaue is a, b, c, d. d, c, b, a how many deletions and additions (A) 2 deletions, 3 additions (B) (C) 3 deletions, 4 additions (D) Which traversal techniques lists the nodes of (A) post - order (B) (C) pre - order (D) The data unit in the TCP/IP application Lay (A) message (B) segment Which of following file retrieval methods use (A) HTML (B) Veronica Which of following is an example of a client (A) DNS (B) FTP (C) provide a method to recover dused: (A) Segmentation (B) (C) Transalation (D) encryption and decryption are the functions (A) transport (B) session The Register or main memory location whoperand is known as: (A) Pointer (B) (C) Special Locations (D)	(A) ABCD (B) BACD (C) The initial configuration of quaue is a, b, c, d. 'a' is a d, c, b, a how many deletions and additions required (A) 2 deletions, 3 additions (B) 3 deletions, 4 additions (D) 3 deletions, 4 additions (E) in - (C) pre - order (E) in - (C) in - (C) pre - order (E) in - (C) in	(A) ABCD (B) BACD (C) BADC The initial configuration of quaue is a, b, c, d. 'a' is at the front. d, c, b, a how many deletions and additions required: (A) 2 deletions, 3 additions (B) 3 deletions, 2 actions (C) 3 deletions, 4 additions (D) 3 deletions, 3 actions (B) in - order (C) pre - order (D) linear order (C) pre - order (D) linear order (C) pre - order (D) linear order (C) datagram (C	(A) ABCD (B) BACD (C) BADC The initial configuration of quaue is a, b, c, d. 'a' is at the front. To get d, c, b, a how many deletions and additions required: (A) 2 deletions, 3 additions (B) 3 deletions, 2 additions (C) 3 deletions, 4 additions (D) 3 deletions, 3 additions Which traversal techniques lists the nodes of a binary search free in (A) post-order (B) in-order (C) pre-order (D) linear on (a) The data unit in the TCP/IP application Layer is called a	(A) ABCD (B) BACD (C) BADC (D) The initial configuration of quaue is a, b, c, d. 'a' is at the front. To get the d, c, b, a how many deletions and additions required: (A) 2 deletions, 3 additions (B) 3 deletions, 2 additions (C) 3 deletions, 4 additions (D) 3 deletions, 3 additions Which traversal techniques lists the nodes of a binary search tree in ascer (A) post - order (B) in - ord r (C) pre - order (D) linear order (A) message (B) segment (C) datagram (D) Which of following file retrieval bettineds use hypermedia? (A) HTML (B) Vermin (C) WAIS (D) Which of following is an example of a client - server model: (A) DNS (B) FTP (C) TELNET (D) All to used: (A) Segmentation (B) Concatenation (C) Transalation (D) Synchronization Incryption and decryption are the functions of the layer of (A) transport (B) session (C) router (D) pres The Register or main memory location which contains the effective accoperand is known as: (A) Pointer (B) Indexed register (C) Special Locations (D) Scratch Pad

32.	A Top - down Parse generates :												
	(A)	Left most deriva	ation		(B) Right - most derivation								
	(C)	Right - most der	ivatio	n in reverse	(D)	(D) Left - most derivation in reverse							
33.	A ge	A general macroprocessor is an in built function of :											
	(A)	Loader	(B)	Linker		(C)	Editor	(D)	Assembler				
34.	Which of the following is not collision Resolution Technique:												
	(A)	Hash addressing	ß		(B)	Chai	nning						
	(C)	Indexing			(D)	None	e of these						
35.	Whi	ch activities is not	t inclu	ded in the f	irst pa	ass of	two pass assem	bler?					
	(A)	build the symbo	l table	:									
	(B)	construct the In	terme	diate code				•					
	(C)	-	uc ope	code and op	erano	í field	· _ / /)						
	(D)	none of these											
36.	Producer consumer problem can be solved using:												
	(A)	semaphores					t counters						
	(C)	monitors			(\overrightarrow{D})	्या स	e above						
37.	used	ou want to execute I must be capable word processing	of:	than one p	rograz (B)		time, the systemal memory	ms soft	ware that are				
	(C)	compiling			(D)	mult	itasking						
38.	тапья	ah af tha fallar	a do	t a connot b		പ്രപ് വ	ut on the innut	đala la	o gratoro ?				
30.	Which of the following checks cannot be carried out on the input data to a syste: (A) Consistency check (B) Syntax check												
	(C)	Range check	CK		(D)	-	he above						
	(-)	Range Cleck			(D)	And	ne above						
39.	Nonmodifiable procedures are called :												
	(A)	Serially usable p	roced	ure	(B)	Cond	urrent procedu	re					
•	(C)	Reentrant proce	dure		(D)	Topo	lown procedure	?					
4	T1	row'a aleemithuu ia		£a									
40		ker's algorithm is Deadlock avoid		101	_	_	e : Ilock removal						
	(A) (C)	Deadlock preve			(B) (D)		ilock removar Ilock continuati	one					
	(C)	Deadlock preve	ILLIOIL		(D)	Deac	nock continuati	orts					
41.	The	testing of softwar	e agai	nst SRS is c	alled	:							
	(A)	Acceptance test	ing		(B)	Integ	gration testing						
	(C)	Regression testir	ng		(D)	Serie	s testing						

42.	The lower degree of cohesion is :												
	(A)	logical cohesion	(B)	coincidential cohesion									
	(C)	procedural cohesion	(D)	communicational cohesion									
43.	, , , , , , , , , , , , , , , , , , , ,												
	(A)	Quality of the design	(B)	Programmer's experience									
	(C)	Number of error	(D)	Set of user requirements									
44.	Succesive layer of design in software using but ton-up design is called:												
	(A)	Layer of Definement	(B)	Layer of Construction									
	(C)	Layer of abstraction	(D)	None of the above									
4 5.	Slidi	ng window concept of software project management is:											
	(A) Preperation of comprehenciable plan												
	(B)	Preperation of the various stages of development											
	(C)	Ad-hoc planning											
	(D)	Requirement analysis		4.0									
46.	Whi	ch of the following transoniss	sion n	redia is used in Blue tooth Technology :									
	(A)	Radio links	(E)	Microwave links									
	(C)	(C) VSAT Communication (D) Fiber - optic											
47.	тапьз	ch of the following is a EDI s) de	and ?									
4 /.	(A)		I X.14		117								
	(A)	ANSI ATS	1 7.15	4 (C) ANSI A.15 (D) ANSI A	12								
4 8.	Ana?	lysis of large database to retr	ive in	uformation is called :									
	(A)	OLTP (B) OLA	P	(C) OLDP (D) TLPP									
49.	The	cost of the network is usually	dete:	ermined by :									
	(A)	Time complexity	(B)	Switching complexity									
-	(C)	Circuit complexity	(D)	None of these									
50.	The	mechanism with which sever	al use	es can share a medium without interference	is:								
	(A)	Frequency modulation	(B)	Amplitude modulation									
	(C)	Multiplexing	(D)	None of these									
	(-)	В	(-)										