# 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

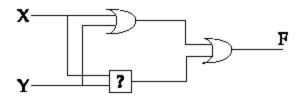
1.	T is	a graph with n ve	rtices. T is	conn	ected	and has exactly n	1 edg	ges, then :
	(A)	T is a tree						
	(B)	T contains no cy	cles					
	(C)	Every pairs of v	ertices in T	is con	necte	i by exactly one j	pa <b>ti</b> h	_()`
	(D)	All of these						
2.	If the	eproposition 7P:	⇒Q is true	, then	the 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\	
		$P(A \cup B) \le P(A)$						
	(-)	1(400) 21(4)	11 (1)	<b>*</b>	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 <b>f</b> -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	bes :							
	(A)	data eleme	ents		(B)	reco	rds and file	s		
	(C)	record rela	ationsl	hip	(D)	all o	f the above			
17.	One	approach to	stan	darolizing	storing	g of d	ata:			
	(A)	MIS		_	(B)	COI	DASYL			
	(C)	Structured	Prog	raming	(D)	Non	e of the abo	ve	>,	•
18.	In a	relational so	hema	. each tupi	le is div	vided	in fields a	lleď		
	(A)	Relations			mains			ries	(D)	All the above
19.	Ane	mbedded p	rinter	nmvides						
-/-	(A)			-	(B)	An i	nserted Ind	lex		
	(C)			-	(D)		he above			
	(-)		,							
20.	A 10	cked file car	ıbe:		U					
	(A)	accessed by	y opły	one user						
	(B)	modified b	y use	rs with th	e corre	t pos	sword			
	(C)	is used 🎨 l	hide s	ensitive in	nforma	tion				
	(D)	both (B) ar	đ (C)	ı						
		11								
21.	In w		every	node the	height	of its 1	eft subtree :	and rig	ht sui	btree differ at least
	(A)	Binary sea	rch tr	ee	(B)	AVL	- tree			
1	(C)	Threaded	binary	tree	(D)	Com	plete tree			
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	?
<b>(A)</b>	<b>Q</b>								
<b>B</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 <b>f th</b> 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 town (C) Transalation  (C) Transalation  Incryption and decrye (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 retrest (A) HTML (B)  Which of following is an extension (A) DNS (B)	(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 To	op – down Parse g	genera	tes:								
	(A)	Left most deriva	ation		(B)	) Right - most derivation						
	(C)	Right - most der	ivatio:	n in reverse		(D)	Left - most der	rivation	in reverse			
33.	A ge	neral macroproce	essor i	s an in built	funct	tion of	f:					
	(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.	Which activities is not included in the first pass of two pass assembler?											
	(A)	build the symbo	l table	•								
	(B)	construct the In	terme	diate code				<b>•</b>				
	(C)	C) separate memonic opcode and operand field.										
	(D)	none of these										
36.	Prod	lucer consumer p	roblen	n can be sol	ved u	sing:	$\lambda$					
	(A)	semaphores					t counters					
	(C)	monitors			(D)	a11 tł	e above					
37.		ou want to execute I must be capable		than one p	rogra	m at a	time, the system	ms soft	ware that are			
	(A)	word processing	3		(B)	virtu	al memory					
	(C)	compiling			(D)	mult	itasking					
38.	Whi	ch of the followin	g che	ks cannot h	e can	ried o	ut on the input	data to	a system ?			
	(A)				(B)		ax check		-			
	(C)	Range check			(D)	A11 t	he above					
39.	Non	modifiable proced	fures :	are called :								
		Serially usable p			(B)	Cond	urrent procedu	ıre				
	$\langle C \rangle$	Reentrant proce			(D)		lown procedure					
40.		ker's algorithm is		for	_	_						
	(A)	Deadlock avoid			(B)		llock removal					
	(C)	Deadlock preve	ntion		(D)	Dead	ilock continuati	ions				
41.	The	testing of softwar	e agai	nst SRS is c	alled	:						
	(A)	Acceptance test	ing		(B)	Integ	gration testing					
	(C)	Regression testii	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.	The	Reliability of the software is	direct	ly dependent upon :							
	(A)	Quality of the design	(B)	Programmer's experience							
	(C)	Number of error	(D)	Set of user requirements							
44.	Succ	esive layer of design in softw	are u	sing but ton-up design is called :							
	(A)	Layer of Definement	(B)	Layer of Construction							
	(C)	Layer of abstraction	(D)	None of the above							
<b>4</b> 5.	Slidi	ng window concept of softw	_								
	(A) Preperation of comprehenciable plan										
	(B)	Preperation of the various s	tages	of development							
	(C)	Ad-hoc planning									
	(D)	Requirement analysis		4.0							
46.	Whi	ch of the following transoniss	sion n	edia is used in Blue tooth Technology :							
	(A)	Radio links	(E)	Microwave links							
	(C)	VSAT Communication	(D)	Fiber - optic							
47.	тапьз	ch of the following is a EDI s	) de								
<b>4</b> /.	(A)		I X.14								
	(A)	ANSI ATS	1 7.15	£ (C) ANSI X.13 (D) ANSI X.12							
<b>4</b> 8.	Anal	lysis of large database to retri	ive in	formation is called :							
	(A)	OLTP (B) OLA	P	(C) OLDP (D) TLPP							
49.	The	cost of the network is usually	dete:	rmined 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 :							
22.	(A)	Frequency modulation	(B)	Amplitude modulation							
	(C)	Multiplexing	(D)	None of these							
	(-)		(-)								