## **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.

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	(A)	NP/2 bytes	(B)	P/2 bytes		(C)	N/2 bytes	(D)	NP bytes
10.		ıme N segments i nal fragmentation	is:	•	oage s		•	stage o	
	is ? (A)	60%	(B)	70%		(C)	90%	(D)	100%
9.		n a four programs	in me	emory and w	vith 8	0% av	erage I/O wait, t	he CF	'U utilization
8.	To e (A) (C)	mploy multi-acce time slots handsets	ss in (	GSM, users a	are giv (B) (D)	band	fferent : lpass filters iency bands		
7.	The (A) (C)	Fiber Distributed single mode fibe single mode fibe	ers and	d LEDs	(B)		imode fibers and		S
6.		throughput of pu S=G		OHA is give S=e <sup>2G</sup>	en by	: (C)	$S = Ge^{2G}$	(D)	$S = Ge^{-2G}$
5.		rder to implement $2^n$ inputs					tion, a MUX mus $2^{n-1}$ inputs		
4.	(A)	characteristic equ $Q_{n+1} = J.Q_n + K$ $Q_{n+1} = Q_n J.K$		•	(B)	$Q_{n+}$	$_{1} = J.\overline{Q}_{n} + \overline{K}.Q_{n}$ $_{1} = (J + k)Q_{n}$		
	(A)	x	(B)	y		(C)	Z	(D)	x + y + z
3.		Boolean expressio		· ·	z is ec	-		<i>(</i> ).	
2.	In o	order that a code is $t$		ror correctin $2t-1$	g, the	minir (C)	· ·		e should be: $2t+1$
1.	same (A)	and $y$ are indeper e variance, their jo $p(x, y) = p(x) \cdot p(y)$ $p(x, y) = p(x + y)$	oint pi y)		ensity (B)	funct $p(x,$			e 0 and with
_	TC		1 .	·	1		1.1		0 1 . 1

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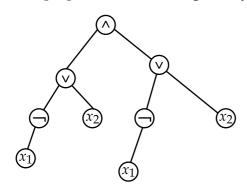
11.		ertion (A): Bit notes from (R): Search Both (A) and (R) Both (A) and (R) (A) is true (R) is (A) is false (R) is	ching ) are ) are false	a bit map for true and <b>(R)</b> i	a run of g	given length i explanation fo	s a slow o	operation.
12.	The (A)	complete graph v 3	vith fo (B)		as <i>k</i> edges (C)		(D)	6
13.	The (A)	octal equivalent o 47.21	of hex (B)	adecimal (A.E 12.74	B) <sub>16</sub> is: (C)	12.71	(D)	17.21
14.		duced state table ement the sequer 18			minimum (C)		Flips flop (D)	
15.	c = 1	+ + c + + + c;	b' afte	er the execution	on of the f	C	e statemer (D)	nts : None
16.	Which	ch of the followin automatic	g doe (B)	s not represer static	nt a valid (C)	storage class union	in 'c' ? (D)	extern
17.	The friend functions are used in situations where:  (A) We want to have access to unrelated classes  (B) Dynamic binding is required  (C) Exchange of data between classes to take place  (D) None of the above							
18.	(i) (ii) (iii) (iv) Whice (A)	DML includes a DML includes a DML includes a DML includes a calculus ch one is correct?	query query	y language ba y language ba	sed on tu	ple calculus lational algeb	ra	
19.		pose it takes 100 r a 90% hit rate, tl 20 ns		1 0	me equals		ss associa (D)	tive memory 100 ns
20.	Ther (A) (C)	e exists a constru empty in error	ct wh	(B) r	value 'truenon-empty none of the	7	ment subq	uery is :

P.T.O.

- 21. Which construct in SQL is used to test whether a subquery has any tuples in its result?
  - (A) UNIQUE
- (B) **EXISTS**
- (C) GROUP BY
- (D) EXCEPT

- 22. ORACLE supports:
  - (A) inner join and outer join only
  - (B) outer join and semi join only
  - inner join, outer join, semi join only (C)
  - inner join, outer join, semi join and anti join (D)
- Which two of the following are equivalent for an undirected graph G? 23.
  - (i) G is a tree
  - (ii) There is at least one path between any two distinct vertices of G
  - G contains no cycles and has (n-1) edges (iii)
  - (iv) G has n edges
  - (A) (i) and (ii)
  - (B) (i) and (iii)
  - (C) (i) and (iv)
  - (D) (ii) and (iii)
- 24. In a B tree of order m with p nodes the average number of splits is at most:
  - (A)  $\sqrt{\left(\left\lceil \frac{m}{2} \right\rceil 1\right)}$  (B)  $\left(\left\lceil \frac{m}{2} \right\rceil 1\right)$  (C)  $\sqrt{\left\lceil \frac{m}{2} \right\rceil}$  (D) None

25. The propositional formula given by the tree:



is:

- (A)  $\wedge \vee x_2 \vee x_1 \neg x_1 \neg x_1$
- (B)  $(x_2 \vee \neg x_2) \wedge (x_1 \vee x_2)$
- $(\neg x_1 \lor x_2) \land (\neg x_1 \lor x_2)$
- (D) None
- 26. Queue is a \_\_\_\_\_ list.
  - (A) LIFO
- (B) LILO
- (C) FILO
- (D) FIFO

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36.	Find the odd man out :											
	(A)	tail	(B)	cut		(C)	wart	(D)	sed			
37.	Which of the following changes permission to deny write permission to group and others?											
	(A)	Chmod go – v	w filex		(B)	Chn	nod go w filex					
	(C)	Chmod go = v	w filex		(D)	Non	e of the above					
38.	Vari	Variable partition memory management technique with compaction results in :										
	(A)											
	(B)	Minimal was	tage									
	(C)	Segment shar	ing									
	(D)	None of the a	bove									
39.	Capability Maturity Model is meant for :											
	(A)	Product			(B)	Proc	eess					
	(C)	Product and	Process		(D)	Non	e of the above					
40.	In the light of software engineering software consists of :											
	(A)	Programs			(B)	Data	a					
	(C)	Documentation	on		(D)	All	of the above					
41.	Whi	Which one of the following ISO standard is used for software process?										
	(A)	ISO 9000	(B)	ISO 9001		(C)	ISO 9003	(D)	ISO 9000-3			
42.	Which of the following is used for test data generation?											
	(A)	White Box			(B)	Blac	k Box					
	(C)	Boundary-val	lue anal	ysis	(D)	All	of the above					
43.	Reverse engineering is the process which deals with :											
	(A)	Size measure	ment		(B)	Cost	measuremen	t				
	(C)	Design recove	ery		(D)	All	of the above					
44.	The spacing between character pairs is called:											
	(A)	kerning	(B)	<i>x</i> -height		(C)	intercap	(D)	serif			
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<b>45.</b>	When compared with analog cellular systems, an advantage of digital TDMA cellular system is that :											
	(A)	it is less complicated										
	(B)	) it requires less of computer memory										
	(C)	(C) it conserves spectrum bandwidth										
	(D)	it costs less										
46.	E-co	ommerce includes :										
	(A)	B2C	(B)	B2B								
	(C)	C2C	(D)	All of the above								
47.	A cl	A clustering technique that permits a convenient graphical display is :										
	(A)	partition based clustering										
	(B)	probabilistic model based clustering										
	(D)	agglomerative clustering										
<b>48.</b> After sending a message ,the sender should not be able to, at a later date, den sent the message, is referred to as :												
	(A)	Authenticity	(B)	Non-Repudiability								
	(C)	Auditability	(D)	Repudiability								
49.		of different topologies using different sets on can flow from one to another is called:										
	(A)	Router (B) Bridge		(C) Gateway (D) Switch								
50.	We	can not delete the icon	but v	ve can made it invisible.								
	(A)	Recycle	(B)	My computer								
	(C)	Internet explorer	(D)	None of the above								
		- o	O o -									