(A) virtual page number. (B) page frame number.

(D) access right information.

(C) both virtual page number and page frame number.

CS: COMPUTER SCIENCE AND INFORMATION **TECHNOLOGY**

		EE25BTECH11041	- Nar	nan	
1.	Which of the following is N (A) Commutativity (C) Existence of inverse for		f a Gro (B) (D)	oup? Associativity Existence of identity	
					(GATE CS 2009)
2.	What is the chromatic number any odd lenght cycle? Assur	_	onnect	ed undirected graph w	hich does not contain
	(A) 2	(B) 3	(C) 1	n-1	(D) n (GATE CS 2009)
3.	Which one of the following	is TRUE for any simple con	nected	undirected graph with	more than 2 vertices?
	(A) No two vertices have to(B) At least two vertices have(C) At least three vertices(D) All vertices have the same	ave the same degree.			
					(GATE CS 2009)
4.	Consider the binary relation	R = (x, y), (x, z), (z, x), (z, z)	y) on	the set x, y, z. Which o	one of the following is
	TRUE? (A) R is symmetric but No. (C) R is both symmetric a	· · · · · · · · · · · · · · · · · · ·	(B) (D)	R is NOT symmetric R is neither symmetr	•
5.	(1217) ₈ is equivalent to (A) (1217) ₁₆	(B) $(028F)_{16}$	(C) ((2297) ₁₀	(D) (0 <i>B</i> 17) ₁₆ (GATE CS 2009)
6.	What is the minimum numb use only 2-input NOR gates		ment t	the Boolean function (A	AB + C) if we have to
	(A) 2	(B) 3	(C) 4	1	(D) 5 (GATE CS 2009)
7.	How many 32K × 1 RAM c (A) 8	hips are needed to provide a (B) 32	memo (C) (oytes? (D) 128 (GATE CS 2009)
8.	A CPU generally handles ar	n interrupt by executing an ir	nterrup	t service routine	
	(C) by checking the interru	is raised. upt register at the end of fetcupt register after finishing the upt register at fixed time inte	e exect		truction.
9.	In which one of the followin (A) FIFO	ng page replacement policies (B) Optimal	s, Belac (C) I	• •	ur? (D) MRU (GATE CS 2009)
10.	The essential content(s) in e	each entry of a page table is/a	are		

- (C) strings that begin and end with the same symbol.
- (D) all even length palindromes.

(GATE CS 2009)

- 13. Which of the following statement(s) is/are correct regarding Bellman-Ford shortest path algorithm?

 P. Always finds a negative weighted cycle, if one exists. Q. Finds whether any negative weighted cycle is reachable from the source.
 - (A) Ponly
 - (B) Q only
 - (C) Both P and Q
 - (D) neither P and Q

(GATE CS 2009)

- 14. Let π_A be a problem that belongs to the class NP. Then which one of the following is TRUE?
 - (a) There is no polynomial time algorithm for π_A .
 - (b) If π_A , can be solved deterministically in polynomial time, then P = NP.
 - (c) If π_A is NP-hard, then it is NP-complete.
 - (d) π_A may be undecidable.

(GATE CS 2009)

- 15. Which one of the following languages over the alphabet (0, 1) is described by the regular expression: (0+1)*0(0+1)*0(0+1)*?
 - (A) The set of all strings containing the substring 00.
 - (B) The set of all strings containing at most two 0's.
 - (C) The set of all strings containing at least two 0's.
 - (D) The set of all strings that begin and end with either 0 or 1.

(GATE CS 2009)

- 16. Which one of the following is FALSE?
 - (A) There is a unique minimal DFA for every regular language.
 - (B) Every NFA can be converted to an equivalent PDA.
 - (C) Complement of every context-free language is recursive.
 - (D) Every nondeterministic PDA can be converted to an equivalent deterministic PDA.

(GATE CS 2009)

17. Match all items in Group 1 with correct options from those given in Group 2.

Group 1 Group 2

P. Regular expression
Q. Pushdown automata
R. Dataflow analysis
3. Lexical analysis

S. Register allocation 4. Code Optimization

- (A) P-4, Q-1, R-2, S-3
- (B) P-3, Q-1, R-4, S-2

```
(C) P-3, Q-4, R-1, S-2
```

(D) P-2, Q-1, R-4, S-3

(GATE CS 2009)

18. Consider thhe program below:

```
#include <stdio.h>
int fun(int n, int *f_p) {
    int t, f;
    if (n <= 1) {
        *f_p + 1:
        return 1:
        }
        t = fun (n-1, f_p);
        f = t + *f_p;
        return f;
}
int main(){
    int x = 15;
        printf("%d\n", fun(5, &x));
        return 0;
}</pre>
```

The value printed is:

(A) 6

(B) 8

(C) 14

(D) 15

(GATE CS 2009)

- 19. The coupling between different modules of a software is categorized as follows:
 - I Content coupling
 - II Common coupling
 - III Control coupling
 - IV Stamp coupling

Coupling between modules can be ranked in the order of strongest (least desirable) to weakest (most desirable) as follows:

(A) I-II-III-IV-V

(B) V-IV-III-II-I

(C) I-III-VII-IV

(D) IV-II-V-III-I

(GATE CS 2009)

20. Consider the HTML table definition given below:

	The number of rows in each column and the num			
	(A) (2,2,3) and (2,3,2) (C) (2,2,3) and (2,2,3)	(B) (D)	(2,3,2) and (2,3,2) (2,3,2) and (2,2,3)	
	(2,2,3) and $(2,2,3)$	(D)	(2,3,2) and $(2,2,3)$	(GATE CS 2009)
21.	An unbalanced dice (with 6 faces, numbered from odd is 90% of the probability that the face value is the same.		_	
	If the probability that the face is even given that options is closest to the probability that the face v	-		n one of the following
	(A) 0.453 (B) 0.468	(C) ((D) 0.492
				(GATE CS 2009)
22	For the composition table of a cyclic group show	n helow		
22.	* a b c d	ii ociow		
	a a b c d			
	b b a d a			
	c c d b b			
	d d c a c Which one of the following choices is correct?			
	(A) a, b are generators	(B)	c, d are generators	
	(C) b, c are generators	(D)	d, a are generators	
		, ,		(GATE CS 2009)
22	WILL 61 61 1 1 1 1 1	. 1 . 10		
23.	Which one of the following is the most appropria	te logical forr	nula to represent the s	tatement:
	"Gold and silver	ornaments ar	re precious"	
	The following notations are used:			
	G(x): x i	s a gold ornan	nent	
		a silver ornar		
		x is precious		
	(1) (2) (2(1) (2(1)	(- 2)		7()
	(A) $\forall x (P(x) \to (G(X) \land S(x)))$ (C) $\exists x (G(X) \land S(x)) \Rightarrow P(x)$		$\forall x((G(X) \land S(x))) -$	
	(C) $\exists x ((G(X) \land S(x))) \rightarrow P(x)$	(D)	$\forall x (P(x) \to (G(X) \lor$	
				(GATE CS 2009)
24.	The binary operation is defined as follows:			
	$P \mid Q \mid P \square Q$			
	TTT			
	TFT			
	F T F			
	$F \mid F \mid T$ Which one of the following is equivalent to $P \lor Q$	72		
	(A) $\neg_Q \Box \neg_P$ (B) $P \Box \neg_Q$		$\neg_P\Box Q$	(D) $\neg_P \Box \neg_O$
	~		1 -z	/ 1 - <u>V</u>
25.	$\int_0^{\pi/4} (1 - \tan x)(1 + \tan x) dx$			
	evalutes to	, and -		(B) 1/21 2
	(A) 0 (B) 1	(C) li	n 2	(D) 1/2 ln 2 (GATE CS 2009)

26.	Consider the follows: I. $\neg \forall (P(x))x$ II. $\neg \exists (P(x))x$ III. $\neg \exists (\neg P(x))x$ IV. $\forall (\neg P(x))x$	wing well-formed	formula	e:			
	Which of the abov	e are equivalent?					
	(A) I and III	(B) I ar	nd IV	(C	C) II and III		(D) II and IV
							(GATE CS 2009)
27	Given the following	ng state table of an	FSM w	ith two states A	and B one inn	ut and one	e output:
21.	Present State A	Present State B	Input	New State A	New State B	Output	σομραί.
	0	0	0	0	0	1	
	0	1	0	1	0	0	
	1	0	0	0	1	0	
	1	1	0	1	0	0	
	0	0	1	0	1	0	
	0	1	1	0	0	1	
	1	0	1	0	1	1	
	1	1	1	0	0	1	
				minimum lengt	h of an input str	ing which	will take the machine
	to the state $A = 0$,	•	z = 1?	(6	1) <i>E</i>		(D) (
	(A) 3	(B) 4		(C	2) 5		(D) 6
							(GATE CS 2009)
28.	Consider a 4 stage	e pipeline processo	r. The n	umber of cycles	s needed by the	four instr	uctions 11, 12, 13, 14
	in stages S1, S2, S			•	•		, , ,
				G1 G2 G2			
			11	S1 S2 S3			
			11	2 1 1	1		
			12	1 3 2	2		
			13	2 1 1	3		
			14	1 2 2	2		
	What is the number	er of cycles needed	d to exec	tute the following	ng loop?		
			for(i:	=1 to 2) (11;12;	13.14.)		
			101(1-	-1 w 4) (11,14,	13,17,)		
	(A) 16	(B) 23		(C	C) 28		(D) 30
	hfill (GATE CS 20	009)		·			
•		,					
29.		set associative ca					s. The main memory

consists of 256 blocks and the request for memory blocks is in the following order:

0, 255, 1, 4, 3, 8, 133, 159, 216, 129, 63, 8, 48, 32, 73, 92, 155.

Which one of the following memory block will NOT be in cache if LRU replacement policy is used?

(A) 3

(B) 8

(C) 129

(D) 216

30. Consider a system with 4 types of resources R1 (3 units), R2 (2 units), R3 (3 units), R4 (2 units). A non-preemptive resource allocation policy is used. At any given instance, a request is not entertained if it cannot be completely satisfied. Three processes P1, P2, P3 request the resources as follows if executed independently.

Process P1:	Process P2:	Process P3:
t=0: requests 2 units of R2	t=0: requests 2 units of R3	t = 0: requests 1 unit of R4
t=1: requests 1 unit of R3	t=2: requests 1 unit of R4	t=2: requests 2 units of RI
t=3: requests 2 units of R1	t=4: requests 1 unit of R1	t = 5: releases 2 units of R1
t=5: releases 1 unit of R2 and	'	'
1 unit of R1	t = 6: releases 1 unit of R3	t=7: requests 1 unit of R2
t=7: releases 1 unit of R3	t = 8: Finishes	t = 8: requests 1 unit of R3
t = 8: requests 2 units of R4		t=9: Finishes
t=10: Finishes		

(GATE CS 2009)

Which one of the following statements is TRUE if all three processes run concurrently starting at time t=0?

- (A) All processes will finish without any deadlock.
- (B) Only P1 and P2 will be in deadlock.
- (C) Only P1 and P3 will be in deadlock.
- (D) All three processes will be in deadlock.

(GATE CS 2009)

31. Consider a disk system with 100 cylinders. The requests to access the cylinders occur in following sequence:

Assuming that the head is currently at cylinder 50, what is the time taken to satisfy all requests if it takes 1 ms to move from one cylinder to adjacent one and shortest seek time first policy is used?

(D) 276 ms

(GATE CS 2009)

32. In the following process state transition diagram for a uniprocessor system, assume that there are always some processes in the ready state:

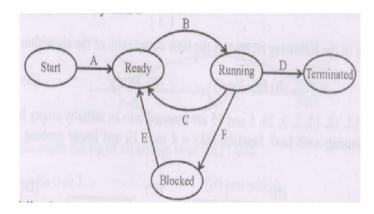


Figure 1

Now consider the following statements: I. If a process makes a transition D, it would result in another process making transition A immediately.

- II. A process P2 in blocked state can make transition E while another process P, is in running state.
- III. The OS uses preemptive scheduling.
- IV. The OS uses non-preemptive scheduling.

Which of the above statements are TRUE?
(A) I and II
(B) I and III
(C) II and III
(D) II and IV
(GATE CS 2009)

33. he enter _CS () and leave _CS() functions to implement critical section of a process are realized using test-and-set instruction as follows:

```
void enter_CS(X)
{
     while (test-and-set(X));
}

void leave_CS(X){
     X=0;
}
```

In the above solution, X is a memory location associated with the CS and is initialized to 0. Now consider the following statements:

- I. The above solution to CS problem is deadlock-free.
- II. The solution is starvation free.
- III. The processes enter CS in FIFO order.
- IV. More than one process can enter CS at the same time.

Which of the above statements are TRUE?

(A) I only

- (B) I and II
- (C) II and III
- (D) IV only

(GATE CS 2009)

- 34. A multilevel page table is preferred in comparison to a single level page table for translating virtual address to physical address because
 - (A) it reduces the memory access time to read or write a memory location.
 - (B) it helps to reduce the size of page table needed to implement the virtual address space of a process.
 - (C) it is required by the translation lookaside buffer.
 - (D) it helps to reduce the number of page faults in page replacement algorithms.

(GATE CS 2009)

35. The running time of an algorithm is represented by the following recurrence relation:

$$T(n) = \begin{cases} n & n \le 3 \\ T(n/3) + cn & \text{otherwise} \end{cases}$$

Which one of the following represents the time complexity of the algorithm?

(A) $\Theta(n)$

(B) $\Theta(n \log n)$

(C) $\Theta(n^2)$

(D) $\Theta(n^2 \log n)$

(GATE CS 2009)

36. The keys 12, 18, 13, 2, 3, 23, 5 and 15 are inserted into an initially empty hash table of length 10 using open addressing with hash function $h(k) = k \mod 10$ and linear probing. What is the resultant hash table?

	0	
(A)	1	
	2	2
(A)	3	23
	5	
	5	15
	6	
	7	
	8	18
	9	

0	
1	
2	2
3	23
4	
5	15
6	
7	
8	18
9	
	1 2 3 4 5 6

	0	
	1	
	2	2
	3	23
(C)	5	
(C)	5	15
	6	
	7	
	8	18
	9	

	0	
	1	
	3	2
		23
(D)	5	
(D)	5	15
	6	
	7	
	8	18
	9	
	~	T 00

(GATE CS 2009)

- 37. What is the maximum height of any AVL-tree with 7 nodes? Assume that the height of a tree with a single node is 0.
 - (A) 2

(B) 3

(C)4

(D) 5

(GATE CS 2009)

38. Consider the following graph:

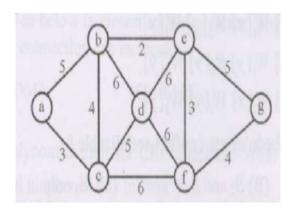


Figure 2

Which one of the following is NOT the sequence of edges added to the minimum spanning tree using Kruskal's algorithm?

- (A) (b. e) (e, f) (a, c) (b, c) (f, g) (c, d)
- (B) (b. e) (e, f) (a, c) (f. g) (b, c) (c, d)
- (C) (b, e) (a, c) (e, f) (b, c) (f, g) (c, d)
- (D) (b, e) (e, f) (b, c) (a, c) (f, g) (c, d)

(GATE CS 2009)

- 39. In quick sort, for sorting n elements, the (n/4) smallest element is selected as pivot using an O(n) time og algorithm. What is the worst case time complexity of the quick sort?
 - (A) $\Theta(n)$
- (B) $\Theta(n \log n)$
- (C) $\Theta(n^2)$
- (D) $\Theta(n^2 \log n)$

(GATE CS 2009)

40. Let L= $L1 \cap L2$, where L1 and L2 are languages as defined below: L1 = $a^m b^m c a^n b^n | m, n \ge 0$ L2 = $a^i b^j c^k | i, j, k \ge 0$

Then L is:

(A) not recursive.

(B) regular

(C) context-free but not regular.

(D) recursively enumerable but not context-free.

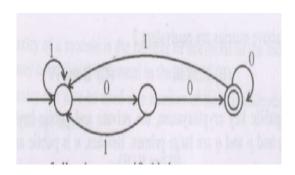


Figure 3

41.	The above DFA accepts the set of all strings over 0, 1 to (A) begin either with 0 or 1. (C) end with 00.	(B) end with 0. (D) contain the sub	string 00. (GATE CS 2009)
42.	Which of the following statements are TRUE? I There exist parsing algorithms for some program II A programming language which allows recursion III No L-attributed definition can be evaluated in the IV Code improving transformations can be perform (A) I and II (B) I and IV	on can be implemented when the framework of bottom-up.	rith static storage allocation. up parsing.
43.	Consider two transactions T, and T2, and four schedule $T_1: R_1[x]W_1[x]W_1[y]$ $T_2: R_2[x]R_2[y]W_2[y]$ $S_1: R_1[x]R_2[x]R_2[y]W_1[x]W_1[y]W_2[y]$ $S_2: R_1[x]R_2[x]R_2[y]W_1[x]W_2[y]W_1[y]$ $S_3: R_1[x]W_1[x]R_2[x]W_1[y]R_2[y]W_2[y]$ $S_4: R_2[x]R_2[y]R_1[x]W_1[x]W_1[y]W_2[y]$ Which of the above schedules are conflict-serializable?		nd T2 as given below: T:
	(A) S_1 and S_2 (B) S_2 and S_3	(C) S_3 only	(D) S_4 only (GATE CS 2009)
44.	The following key values are inserted into a B+-tree in the leaf nodes is 2, in the sequence given below. The or pointers in each node, and the order of leaf nodes is the in it. The B+-tree is initially empty. 10, 3, 6, 8, 4, 2, 1 The maximum number of times leaf nodes would get so (A) 2 (B) 3	der of internal nodes is the maximum number of d	ne maximum number of tree lata items that can be stored e insertions is (D) 5
			(GATE CS 2009)
45.	Let R and S be relational schemes such that $R = a, b, can database: I \pi_{R-S}(r) - \pi_{R-S}(\pi_{R-S}(r) \times s - \pi_{R-S,S}(r)) II t t \in \pi_{R-S}(r) \wedge \forall u \in s(\exists v \in r(u = v[s] \wedge t = v[R]) III t t \in \pi_{R-S}(r) \wedge \forall u \in s(\exists v \in s(u = v[r] \wedge t = v[R])$	- S]))	the following queries on the

Select R.a, R.b

where R.c = S.c

from R, S

IV

	Which of the	above queries	are equivalent?				
	(A) I and II		(B) I and III	(C) I	I and IV	(D) III and IV	
						(GATE CS 2009)	
46.	$n = p \star q$ and that $0 < M < 1$ $M' = 1$ $M = 0$ $M = 0$ $M = 0$	<i>lpandq</i> are larg		is public and J	and q are privat	and(d, n) respectively, where the set. Let M be an integer such as:	
		$M^e \mod \phi(n)$ $M')^d \mod \phi(n)$)				
		above equation	ns correctly represen				
	(A) I and II		(B) I and III	(C) I	I and IV	(D) III and IV	
						(GATE CS 2009)	
47.	clock that keed is to be used maximum pa Which one of bers used for	eps running ev for the initial cket lifetime is f the choices g	en when the host is do sequence numbers. It is given to be 64s. It is closest onnection can increase	own. The low The clock couto the minimuse?	order 32 bits of t unter increments um permissible ra	using a time-of-day (TOD) he counter of the ToD clock once per millisecond. The ate at which sequence num-	
	(A) $0.015/s$		(B) $0.064/s$	(C) (0.135/s	(D) 0.327/s	
						(GATE CS 2009)	
48.	by $G(x)$ to de (A) $G(x)$ co (B) $G(x)$ do (C) $1 + x$ is	etect odd numb	er of bits in error? an two terms. $1 + x^k$, for any k not exp.			(GATE CS 2009)	
40	XXII: 1 C.1	C 11	, TDLIES			(0.112 00 2007)	
49.	I The co	ontext diagram nal entities sho ol information	ements are TRUE? should depict the sysuld be identified clear should not be represe connected either to an	rly at all levels ented in a DFD	of DFDS.	al entity.	
	(A) II and I			(B) (D)	I, II and IV I, II and III		
				()	,	(GATE CS 2009)	
50.	module. Whi I The cy II The cy	ch of these are velomatic composition comp	TRUE? plexity of a module is plexity of a module is	s equal to the r	naximum numbe f decisions in the	or of linearly independent circuits in the module plus one, where a decision expendent paths that should be tested or	is e
	(A) I and II (C) I and II			(B) (D)	II and III I, II and III		

Common Data Questions

Common Data Questions 51 and 52:

A hard disk has 63 sectors per track, 10 platters each with 2 recording surfaces and 1000 cylinders. The address of a sector is given as a triple $\langle c, h, s \rangle$, where c is the cylinder number, h is the surface number and s is the sector number. Thus, the 0th sector is addressed as $\langle 0, 0, 0 \rangle$, the 1" sector as $\langle 0, 0, 1 \rangle$, and so on.

- 51. The address $\langle 400, 16, 29 \rangle$ corresponds to sector number:
 - (A) 505035
- (B) 505036
- (C) 505037
- (D) 505038

(GATE CS 2009)

- 52. The address of 1039th sector is
 - (A) $\langle 0, 15, 31 \rangle$

(B) (0, 16, 31)

(C) $\langle 0, 16, 30 \rangle$

(D) $\langle 0, 17, 31 \rangle$

(GATE CS 2009)

Common Data Questions 53 and 54:

A sub-sequence of a given sequence is just the given sequence with some elements (possibly none or all) left out. We are given two sequences X [m] and Y [n] of lengths m and n, respectively, with indexes of X and Y starting from 0.

53. We wish to find the length of the longest common sub-sequence (LCS) of X[m] and Y[n] as l(m, n), where an incomplete recursive definition for the function l(i, j) to compute the length of the LCS of X[m] and Y[n] is given below:

```
l(i,j) = 0, if either i=0 or j=0
= expr1, if i,j>0 and X[i-1]=Y[j-1]
= expr2, if i,j>0 and X[i-1]\neq Y[j-1]
```

Which one of the following options is correct?

- (A) $expr1 \equiv 1(i-1, j)+1$
- (B) $expr1 \equiv 1(i, i-1)$
- (C) $expr2 \equiv max(1(i-1, j), 1(i, j-1))$
- (D) $expr2 \equiv max(1(i-1, j-1), 1(i, j))$

(GATE CS 2009)

54. The values of **l(i,j)** could be obtained by dynamic programming based on the correct recursive definition of **l(i,j)** of the form given above, using an array L[M,N], where M = m + 1 and N = n+ 1, such that L[i,j] = (i,j).

Which one the following statements would be TRUE regarding the dynamic programming solution for the recursive definition of l(i,j)?

- (A) All elements of L should be initialized to 0 for the values of 1(i,j) to be properly computed.
- (B) The values of (i, j) may be computed in a row major order or column major order of L[M,N].
- (C) The values of l(i,j) cannot be computed in either row major order or column major order of L[M,N].
- (D) L[p,q] needs to be computed before L[r, s] if either p < r or g < s.

(GATE CS 2009)

Common Statement for linked answer questions 55 and 56

Consider the following relational schema:

Suppliers(sid: integer, sname:string, city:string, street:string)

Parts(<u>pid:integer</u>, pname:string, color:string) Catalog(<u>sid:integer</u>, pid:integer, cost:real)

(GATE CS 2009)

55. Consider the following relational query on the above database:

SELECT S.sname

FROM Suppliers S

WHERE S.sid NOT IN (SELECT C.sid

FROM Catalog C

WHERE C.pid NOT IN (SELECT P.pid

Assume that relations corresponding to the above schema are not empty. Which one of the following is the correct interpretation of the above query?

- (a) Find the names of all suppliers who have supplied a non-blue part.
- (b) Find the names of all suppliers who have not supplied a non-blue part.
- (c) Find the names of all suppliers who have supplied only blue parts.
- (d) Find the names of all suppliers who have not supplied only blue parts.

(GATE CS 2009)

- 56. Assume that, in the suppliers relation above, each supplier and each street within a city has a unique name, and (sname, city) forms a candidate key. No other functional dependencies are implied other than those implied by primary and candidate keys. Which one of the following is TRUE about the above schema?
 - (A) The schema is in BCNF.
 - (B) The schema is in 3NF but not in BCNF.
 - (C) The schema is in 2NF but not in 3NF.
 - (D) The schema is not in 2NF.

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Linked Answer Questions

Common Statement for linked answer questions 57 and 58

Frames of 10000 bits are sent over a 10^6 bps duplex link between two hosts. The propagation time is 25ms. Frames are to be transmitted into this link to maximally pack them in transit(within the link).

57. What is the minimum number of bits (l) that will be required to represent the sequence numbers distinctly? Assume that no time gap needs to be given between transmission of two frames.

(A) 1=2

(B) 1=3

(C) l = 4

(D) l=5

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58. Suppose that the sliding window protocol is used with the sender window size of 2'... where 1 is the number of bits identified in the earlier part and acknowledgement are always piggy backed. After sending 2' frames, what is the minimum time the sender will have to wait before starting transmission of the next frame? (Identify the closet choice ignoring the frame processing time.)

(A) 16ms

(B) 18ms

(C) 20ms

(D) 22ms

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Common Statement for linked answer questions 59 and 60

Consider a binary max-heap implemented using an array.

59. Which one of the following array represents a binary max-heap?

- (A) 25,12,16,13,10,8,14
- (B) 25,14,13,16,10,8,12
- (C) 25,14,16,13,10,8,12
- (D) 25,14,12,13,10,8,16

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- 60. What is the content of the array after two delete operations on the correct answer to the previous questions?
 - (A) 14,13,12,10,8
 - (B) 14,12,13,8,10
 - (C) 14,13,8,12,10
 - (D) 14,13,12,8,10