

भारत सरकार :: अंतरिक्ष विभाग Government of India :: Dept. of Space

## सतीश धवन अंतरिक्ष केंद्र शार, श्रीहरिकोटा

भारतीय अंतरिक्ष अनुसंधान संगठन Indian Space Research Organisation



## SATISH DHAWAN SPACE CENTRE SHAR Silbertkota

Section: Computer Science Q.1 When E-R diagram is mapped to tables, the representation is redundant for A. Weak entity sets B. Weak relationship sets C. Strong entity sets D. Strong relationship sets Ans X 1. A ✓ 2. B X 3. C X 4. D Question ID: 5834935395 Select the correct option on Error control protocols present in Data link layer. 1. Stop and wait ARQ 2. Go back N ARQ 3. Selective repeat ARQ 4. Non - Selective repeat ARQ A. 1,2,3 B. 1,3,4 C. 1,2,4 D. 1,4 Ans √ 1. A X 2. B X 3. C X 4. D Question ID: 5834935352 Q.3 Which of the following is the fastest memory? A. Cache B. RAM C. Register D. Secondary storage X 1. A Ans X 2. B √ 3. C X 4. D Question ID: 5834935380

Q.4	A processor performing fetch or decoding of different instruction during the execution	n of another
	instruction is called	
	A. Super-scaling	
	B. Pipe-lining	
	C. Parallel computation	
	D. None of the above	
Ans	<b>★</b> 1. A	
	<b>✓</b> 2. B	
	<b>X</b> 3. C	
	<b>★</b> 4. D	
	•	
		Question ID : 5834935383
Q.5	In Ethernet 1000BASE-X, the encoding scheme used is that encodes _	
	bit data into bit data groups.	
	A. 5B/4B, 5, 4	
	B. 4B/5B, 4, 5	
	C. 8B/10B, 8, 10	
	D. 10B/8B, 10, 8	
Ans	<b>★</b> 1. A	
	<b>★</b> 2. B	
	<b>✓</b> 3. C	
	<b>★</b> 4. D	
		0 11 12 11 11 11
		Question ID : 5834935351
Q.6	Which of the following normal forms is adequate for designing relational databas	۵۶
Q.U	A. 2NF	c.
	B. 3NF	
	C. 4NF	
	D. BCNF	
Ans	<b>★</b> 1. A	
	<b>✓</b> 2. B	
	<b>★</b> 3. C	
	<b>★</b> 4. D	
		Question ID : 5834935391
0.7	TC C	
Q.7	If a process fails, most operating system writes the error into a	
	A. executable file	
	B. Log file	
	C. Segment table	
	D. Page table	
Ans	<b>★</b> 1. A	
Ans		
Ans	★ 1. A ✓ 2. B	
Ans	<ul><li>X 1. A</li><li>✓ 2. B</li><li>X 3. C</li></ul>	
Ans	★ 1. A ✓ 2. B	
Ans	<ul><li>X 1. A</li><li>✓ 2. B</li><li>X 3. C</li></ul>	Question ID : <b>5834935367</b>

- Q.8 The heap is used for
  - A. Static memory allocation
  - B. To share data between controllers
  - C. Dynamic memory allocation
  - D. To store permanent data
- Ans X 1. A
  - X 2. B
  - √ 3. C
  - X 4. D

Question ID: 5834935370

Q.9 Consider an undirected graph G with n' vertices and e' edges. What is the time taken by

Depth First Search if G is represented by

- i) Adjacency Matrix
- ii) Adjacency List
- A.  $O(n), O(n^2)$
- B.  $O(e), O(n^2)$
- C.  $O(n^2)$ , O(e+n)
- D. O(n+e), O(e)
- Ans X 1. A
  - X 2. B
  - √ 3. C
  - X 4. D

Question ID: 5834935403

- Q.10 IEEE 802.11ac is a
  - A. Wireless networking standard working on 2.4GHz band
  - B. Wireless networking standard with 8000 Mbits/s link rate
  - C. Wireless networking standard labelled as Wi-Fi 6
  - D. Wireless networking standard working on 5GHz band
- Ans 🚀 1. A
  - X 2. B
  - X 3. C
  - X 4. D

Question ID: 5834935347

Q.11	SET concept used in	
	A. Network model	
	B. Hierarchical model	
	C. Relational model	
	D. Object oriented model	
Ans	<b>✓</b> 1. A	
	<b>X</b> 2. B	
	<b>★</b> 3. C	
	<b>X</b> 4. D	
		Question ID : 5834935393
Q.12	Protocol combines some aspects of UDP and TCP	
	A. Service Control Transmission Protocol	
	B. Stream Control Transmission Protocol	
	C. System Control Transmission Protocol	
	D. Switch Control Transmission Protocol	
Ans	<b>★</b> 1. A	
	<b>✓</b> 2. B	
	<b>X</b> 3. C	
	<b>★</b> 4. D	
	74.0	
		Question ID : 5834935346
Q.13	The purpose of rewind () function in C is	
	A. File pointer is initialized to beginning of the file	
	B. File is closed and freshly opened	
	C. File pointer is initialized to end of file	
	D. File pointer is set to null	
Ans	<b>✓</b> 1. A	
	<b>★</b> 2. B	
	<b>X</b> 3. C	
	<b>★</b> 4. D	
		Question ID : 5834935361
Q.14	A binary search tree is generated by inserting the following integers	
	47, 19, 5, 68, 23, 58, 39, 4, 6, 27, 50, 14	
	The number of nodes in the left sub-tree and right sub-tree of the root ar	e respectively.
	A. (4,7)	
	B. (7,4)	
	C. (8,3)	
	D. (3,8)	
Ans	<b>★</b> 1. A	
	<b>★</b> 2. B	
	<b>✓</b> 3. C	
	<b>X</b> 4. D	
		Quarties ID : 5924925499
		Question ID : 5834935400

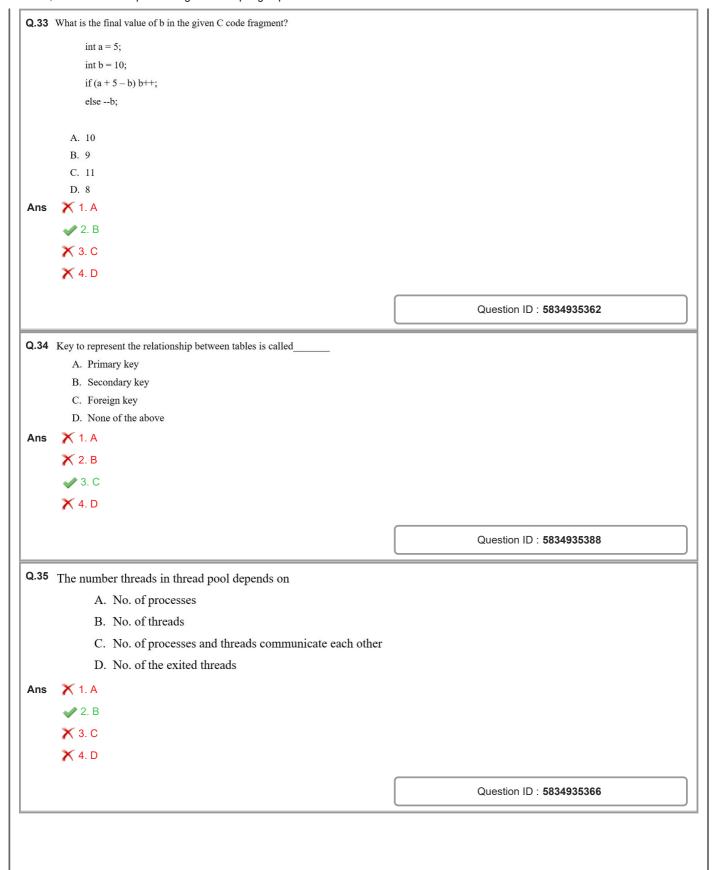
Q.15	Which of the following methods is executed to bring an applet to 'Ru	unning' state?
	A. start()	
	B. stop()	
	C. init()	
	D. destroy()	
Ans	<b>✓</b> 1. A	
	<b>★</b> 2. B	
	<b>★</b> 3. C	
	<b>★</b> 4. D	
		Question ID : 5834935413
Q.16	Life cycle of typical cursor involves the following 5 steps in SQL server	
	A. Cursor, Open, Fetch, Close and De-allocate	
	B. Create Cursor, Open, Fetch, Close and De-allocate	
	C. Declare Cursor, Create, Fetch, Close and De-allocate	
	D. Declare Cursor, Open, Create, Fetch and Close	
Ans	<b>✓</b> 1. A	
	<b>X</b> 2. B	
	<b>X</b> 3. C	
	<b>★</b> 4. D	
		Question ID : <b>5834935394</b>
Q.17	What is the minimum number of stacks of size $'n'$ , required to impleme	ent a queue of size 'n'?
	A. 1	
	B. 2	
	C. 3	
	D. 4	
Ans		
	X 1. A	
	X 1. A ✓ 2. B	
	<b>✓</b> 2. B	
	<ul><li>✓ 2. B</li><li>✗ 3. C</li></ul>	
	<b>✓</b> 2. B	
	<ul><li>✓ 2. B</li><li>✗ 3. C</li></ul>	Question ID : <b>5834935398</b>
Q.18	<ul><li>✓ 2. B</li><li>✗ 3. C</li></ul>	Question ID : 5834935398
Q.18	✓ 2. B X 3. C X 4. D	Question ID: <b>5834935398</b>
Q.18	✓ 2. B  X 3. C  X 4. D  When an E-R model is converted to a relational database	Question ID : 5834935398
Q.18	<ul> <li>✓ 2. B</li> <li>X 3. C</li> <li>X 4. D</li> </ul> When an E-R model is converted to a relational database <ul> <li>A. Entity become tables and relationship becomes fields</li> </ul>	Question ID : <b>5834935398</b>
Q.18	<ul> <li>✓ 2. B</li> <li>✗ 3. C</li> <li>✗ 4. D</li> </ul> When an E-R model is converted to a relational database <ul> <li>A. Entity become tables and relationship becomes fields</li> <li>B. Entity become fields and relationship becomes tables</li> </ul>	Question ID : <b>5834935398</b>
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	<ul> <li>✓ 2. B</li> <li>✗ 3. C</li> <li>✗ 4. D</li> </ul> When an E-R model is converted to a relational database <ul> <li>A. Entity become tables and relationship becomes fields</li> <li>B. Entity become fields and relationship becomes tables</li> <li>C. Both entities and relationships becomes tables</li> <li>D. Entity become tables and relationship becomes keys</li> </ul> ★ 1. A <ul> <li>★ 2. B</li> <li>✓ 3. C</li> </ul>	Question ID : <b>5834935398</b>
	<ul> <li>✓ 2. B</li> <li>✗ 3. C</li> <li>✗ 4. D</li> </ul> When an E-R model is converted to a relational database <ul> <li>A. Entity become tables and relationship becomes fields</li> <li>B. Entity become fields and relationship becomes tables</li> <li>C. Both entities and relationships becomes tables</li> <li>D. Entity become tables and relationship becomes keys</li> </ul> ★ 1. A ★ 2. B	Question ID : 5834935398
	<ul> <li>✓ 2. B</li> <li>✗ 3. C</li> <li>✗ 4. D</li> </ul> When an E-R model is converted to a relational database <ul> <li>A. Entity become tables and relationship becomes fields</li> <li>B. Entity become fields and relationship becomes tables</li> <li>C. Both entities and relationships becomes tables</li> <li>D. Entity become tables and relationship becomes keys</li> </ul> ★ 1. A <ul> <li>★ 2. B</li> <li>✓ 3. C</li> </ul>	Question ID : 5834935398  Question ID : 5834935421

Ans	specified?  A. BETWEEN  B. ANY  C. IN	
Ans	B. ANY	
Ans		
Ans	C. IN	
Ans	D. ALL	
Alla	X 1. A	
	<b>★</b> 2. B	
	<b>→</b> 3. C	
	<b>X</b> 4. D	
		Question ID : 5834935392
Q.20	In order to allow only one process to enter its critical section, binary	semaphore is
	initialised to	•
	A. 0	
	B. 1	
	C. 2	
	D. 3	
Ans	<b>★</b> 1. A	
	<b>✓</b> 2. B	
	<b>X</b> 3. C	
	<b>★</b> 4. D	
		Question ID : 5834935368
Q.21	Internet Control Message Protocol (ICMP) takes care of	
	A. It is used for configuring devices	
	B. Converts logical address to physical address for control	
	C. Controls all the messages in the network and filters packets	
	D. Reporting errors and performing network diagnostics	
Ans	<b>★</b> 1. A	
	<b>X</b> 2. B	
	<b>X</b> 3. C	
	<b>✓</b> 4. D	
		Question ID: 5834935350
Q.22	If the errors are more in the Ethernet frame, bandwidth loss is minimal in	
	A. Go-back-N ARQ	
	B. Selective Repeat ARQ	
	C. Non-selective Repeat ARQ	
	D. None of the above	
Ans	<b>★</b> 1. A	
	<b>✓</b> 2. B	
	<b>★</b> 3. C	
	<b>★</b> 4. D	
		Question ID: 5834935348

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Q.23	The technique used in WI	AN is			
	A. Time Division Mu	ltiplexing			
	B. Space Division Mu				
	C. Orthogonal Freque	ency Division Multip	olexing		
	D. Channel Division	Multiplexing			
Ans	X 1. A				
	<b>X</b> 2. B				
	<b>✓</b> 3. C				
	<b>★</b> 4. D				
					Question ID : 5834935345
Q.24	What is the wait ti	me of process I	P2 using shortest jo	bb first sch	cheduling?
		Process	Burst time		
		P1	6		
		P2	8		
		Р3	7		
		P4	3		
	A. 9		_		
	В. 3				
	C. 7				
	D. 16				
Ans	<b>★</b> 1. A				
	<b>★</b> 2. B				
	<b>X</b> 3. C				
	<b>✓</b> 4. D				
					Question ID : 5834935373
Q.25	Carriel and the	1		G'	
	Consider a multiprog at the same time). As				
	What will be the CPU		rocess spends 40% o	of its tillie v	waiting for 1/O.
	A. 004096	dillization.			
	B. 0.999555				
	C. 0.995904				
	D. 0.994646				
Ans	<b>X</b> 1. A				
	<b>X</b> 2. B				
	<b>✓</b> 3. C				
	<b>X</b> 4. D				
					Question ID : 5834935375

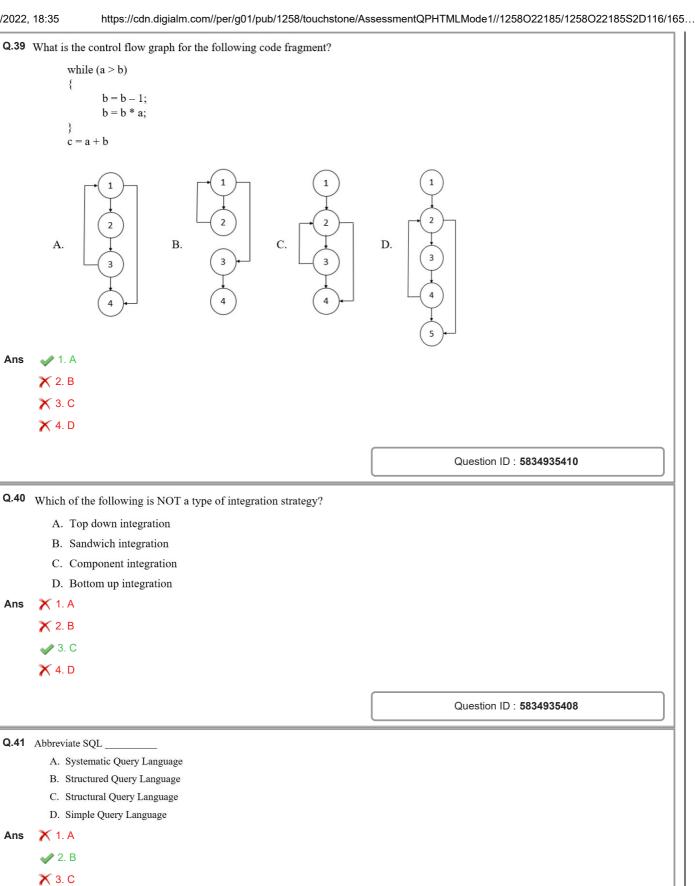
Q.26	What is the maximum number of comparisons required to search an eler	nent in unsorted list
	of 'n' elements using binary search?	
	A. $log_2 n$	
	B. $log_2 n^2$	
	C. $log_2 2^n$	
	D. cannot be determined	
Ans	<b>★</b> 1. A	
	<b>★</b> 2. B	
	<b>★</b> 3. C	
	✓ 4. D	
	4.0	
		Question ID : 5834935401
Q.27	Tables in second normal form (2NF):	
<b></b>	A. Eliminate all hidden dependencies	
	B. Eliminate the possibility of an insertion anomalies	
	C. Have a composite key	
	D. Have all non-key fields depend on the whole primary key	
Ans	<b>✓</b> 1. A	
	<b>★</b> 2. B	
	<b>X</b> 3. C	
	<b>★</b> 4. D	
		Question ID : 5834935390
Q.28	Choose the incorrect statement regarding TCP and UDP.	
	A. TCP supports broadcasting but not UDP	
	B. TCP guarantees delivery of data but not UDP	
	C. TCP is slower than UDP	
	D. Retransmission of data is possible in TCP but not in UDP	
Ans	<b>✓</b> 1. A	
	<b>X</b> 2. B	
	<b>★</b> 3. C	
	<b>★</b> 4. D	
	•	
		Question ID : 5834935349
Q.29	The number of processes completed per unit time is called	
	A. Output	
	B. Capacity	
	C. Throughput	
	D. Efficiency	
Ans	<b>★</b> 1. A	
	<b>X</b> 2. B	
	<b>✓</b> 3. C	
	<b>★</b> 4. D	
		Question ID : 5834935365
		'

Q.30	If an entity appears in not more than 5 relationships then it is a	
	A. 1:1 relationship	
	B. 1:5 relationship	
	C. 5:1 relationship	
	D. 5:5 relationship	
Ans	<b>X</b> 1. A	
	<b>✓</b> 2. B	
	<b>X</b> 3. C	
	<b>★</b> 4. D	
		Question ID : 5834935389
Q.31	Which of the following Xpath expression selects the attribute?	
	A. @	
	В. &	
	C. %	
	D. \$	
Ans	<b>✓</b> 1. A	
	<b>X</b> 2. B	
	<b>※</b> 3. C	
	<b>★</b> 4. D	
		Question ID : 5834935418
Q.32	Which of the following values has to be assigned to the <target> tag in open the link page in a new window?</target>	n the <base/> tag to
	Ablank	
	Bnew	
	Cparent	
	Dtop	
Ans	✓ 1. A	
	<b>★</b> 2. B	
	<b>※</b> 3. C	
	<b>★</b> 4. D	
		Question ID : 5834935420



Cast in ASF, which of the following method is used to end the current user session and destroy the current user session an	0.26			
A. Session.Exit B. Session.End C. Session.Terminate D. Session.Abandon  Ans X 1.A X 2.B X 3.C	Q.30	In ASP, which of the following method is used to end the current user session and destroy the		
B. Session.End C. Session.Terminate D. Session.Abandon  Ans X 1.A X 2.B X 3.C 4.D  Question ID: 5834935417  Question ID: 5834935415		current session object?		
C. Session.Terminate D. Session.Abandon  Ans		A. Session.Exit		
D. Session.Abandon  Ans		B. Session.End		
Ans		C. Session.Terminate		
X 2. B X 3. C  ✓ 4. D  Question ID: 5834935417  Q.37 The main container for the HTML tags  A. <body> B. <group> C. <data> D.  Ans X 1. A X 2. B X 3. C ✓ 4. D  Question ID: 5834935415  Question ID: 5834935415  Question ID: 5834935415  Question ID: 5834935415  Ans X 1. A X 2. B X 3. C X 4. D  Question ID: 5834935415</data></group></body>		D. Session.Abandon		
Q.37 The main container for the HTML tags	Ans	<b>★</b> 1. A		
Q.37 The main container for the HTML tags		<b>X</b> 2. B		
Q.37 The main container for the HTML tags		<b>X</b> 3. C		
Q.37 The main container for the HTML tags		<b>❖</b> 4. D		
Q.37 The main container for the HTML tags				
A. <body> B. <group> C. <data> D.   Ans</data></group></body>		Question ID : <b>5834935417</b>		
B. <group> C. <data> D.   Ans</data></group>	Q.37	The main container for the HTML tags , , and  is		
B. <group> C. <data> D.   Ans</data></group>		A. <body></body>		
C. <data> D.  Ans</data>				
Ans				
X 2. B  X 3. C  ✓ 4. D  Question ID: 5834935415  A. Large RAMs are fast  B. Fewer page faults  C. Virtual memory increases  D. Fewer memory access  Ans X 1. A  ✓ 2. B  X 3. C  X 4. D		D.		
<ul> <li>X 3. C</li> <li>✓ 4. D</li> <li>Question ID: 5834935415</li> <li>Q.38 Increasing the RAM of the PC improves performance because</li> <li>A. Large RAMs are fast</li> <li>B. Fewer page faults</li> <li>C. Virtual memory increases</li> <li>D. Fewer memory access</li> <li>Ans</li> <li>X 1. A</li> <li>✓ 2. B</li> <li>X 3. C</li> <li>X 4. D</li> </ul>	Ans	<b>★</b> 1. A		
<ul> <li>X 3. C</li> <li>✓ 4. D</li> <li>Question ID: 5834935415</li> <li>Q.38 Increasing the RAM of the PC improves performance because</li> <li>A. Large RAMs are fast</li> <li>B. Fewer page faults</li> <li>C. Virtual memory increases</li> <li>D. Fewer memory access</li> <li>Ans</li> <li>X 1. A</li> <li>✓ 2. B</li> <li>X 3. C</li> <li>X 4. D</li> </ul>		<b>X</b> 2. B		
Question ID: 5834935415				
Q.38 Increasing the RAM of the PC improves performance because  A. Large RAMs are fast B. Fewer page faults C. Virtual memory increases D. Fewer memory access  Ans		<b>✓</b> 4. D		
Q.38 Increasing the RAM of the PC improves performance because  A. Large RAMs are fast B. Fewer page faults C. Virtual memory increases D. Fewer memory access  Ans				
A. Large RAMs are fast  B. Fewer page faults  C. Virtual memory increases  D. Fewer memory access  Ans		Question ID : <b>5834935415</b>		
B. Fewer page faults C. Virtual memory increases D. Fewer memory access  Ans	Q.38	Increasing the RAM of the PC improves performance because		
C. Virtual memory increases D. Fewer memory access  Ans X 1. A  2. B  X 3. C  X 4. D		A. Large RAMs are fast		
D. Fewer memory access  Ans X 1. A  2. B  X 3. C  X 4. D		B. Fewer page faults		
Ans		C. Virtual memory increases		
✓ 2. B X 3. C X 4. D		D. Fewer memory access		
★ 3. C ★ 4. D	Ans	<b>★</b> 1. A		
<b>★</b> 4. D		<b>✓</b> 2. B		
		<b>★</b> 3. C		
Question ID : 5834935371		<b>★</b> 4. D		
		Question ID : 5834935371		

X 4. D



Question ID: 5834935387

Q.42	The most desirable and least desirable form of cohesion are	respectively.
	A. functional cohesion, coincidental cohesion	
	B. logical cohesion, sequential cohesion	
	C. procedural cohesion, functional cohesion	
	D. temporal cohesion, logical cohesion	
Ans	✓ 1. A	
Alls		
	<b>★</b> 2. B	
	<b>X</b> 3. C	
	<b>★</b> 4. D	
		Question ID : 5834935407
Q.43	The process of organizing the memory into two banks to allow 8 bit and 16-bit data called	operation is
	A. Bank switching	
	B. Indexed mapping	
	C. Two-way memory interleaving	
A	D. Memory segmentation	
Ans	X 1. A	
	<b>X</b> 2. B	
	<b>→</b> 3. C	
	<b>★</b> 4. D	
		Question ID : 5834935386
Q.44	Choose the option with correct order of operator precedence from highest to lowes	of the state of th
4	choose the option with correct order of operator precedence from highest to lowes	
	A. &, >, +, /	
	B. /, &, >, +	
	C. /,+,>,&	
	D. /,+,&,>	
Ans	<b>★</b> 1. A	
	<b>X</b> 2. B	
	<b>✓</b> 3. C	
	<b>★</b> 4. D	
		Question ID : 5834935363
Q.45	The overhead code required to be written for unit testing is called	
	I. driver II. stub III. scaffolding	
	A. Only I	
	B. Only II	
	C. Only III	
	D. Only I and II	
A		
Ans	X 1. A	
	<b>X</b> 2. B	
	<b>→</b> 3. C	
	<b>X</b> 4. D	
		Question ID : 5834935412

Q.46	Construction of a coaxial cable can be briefly given as	
	A. A solid inner conductor surrounded by an insulator	
	B. A solid inner conductor surrounded by an insulator and an overall c	onductive sheath
	C. A solid inner conductor surrounded by a conductive sheath	
	D. A solid inner conductor twisted with an insulation	
Ans	<b>X</b> 1. A	
	<b>✓</b> 2. B	
	<b>X</b> 3. C	
	<b>★</b> 4. D	
		Question ID : 5834935344
Q.47	Token ring is standardized in 1989 as IEEE	
	A. 802.3	
	B. 802.4	
	C. 802.5	
	D. 802.11ac	
Ans	<b>★</b> 1. A	
	<b>X</b> 2. B	
	<b>✓</b> 3. C	
	<b>★</b> 4. D	
	74.0	
		Question ID : 5834935343
Q.48	The range of numbers which can be represented by 9 bits when 2's compliment inte	ger
	representation is used	
	A256 to +255	
	B255 to + 256	
	C512 to +511	
Ans	D. 0 to 1024	
Ans	✓ 1. A	
	<b>X</b> 2. B	
	<b>※</b> 3. C	
	<b>★</b> 4. D	
		Question ID : 5834935384
0.40	The technique where the controller is given complete access to main memory is	
Q.45	A. Cycle stealing	-
	B. Memory stealing	
	C. Memory conditioning	
	D. Burst mode	
1		
Ans	<b>X</b> 1. A	
Ans		
Ans	<b>★</b> 2. B	
Ans	<ul><li>★ 2. B</li><li>★ 3. C</li></ul>	
Ans	<b>★</b> 2. B	
Ans	<ul><li>★ 2. B</li><li>★ 3. C</li></ul>	Question ID : 5834935382

Q.50 What is the maximum size of the disk for the following details? No. of cyclinders:1024 No. of heads:16(Two tracks per head) Sectors per track:63 Each sector:512 bytes A. 128MB B. 528MB C. 1056MB D. 428MB Ans X 1. A X 2. B √ 3. C X 4. D Question ID: 5834935372 Q.51 Which of the following is a phase of a compilation process? A. Lexical analysis B. Code generation C. Static analysis D. Both A & B X 1. A Ans X 2. B X 3. C √ 4. D Question ID: 5834935369 **Q.52** Which of the following is called a self-referential structure? A. Linked list B. Stack C. Queue D. Graph Ans √ 1. A X 2. B **X** 3. C X 4. D Question ID: 5834935396

```
Q.53 What is the output of the C code fragment shown below?
      #define n 6-4
      void main () {
      int i;
      i = n * n;
      printf ("%d", i);
         A. 4
         В. -22
         C. 8
         D. File pointer is set to null
Ans X 1. A
        ✓ 2. B
        X 3. C
        X 4. D
                                                                                                  Question ID: 5834935360
Q.54 What is the output of the following JavaScript code?
              <html>
                     <body>
                             <script>
                                    var x = 12.89;
                                    \mathbf{var}\ \mathbf{y}=\mathbf{3};
                                    var z = '4' + y + x;
                                    document.write(z + "<br>");
                             </script>
                     </body>
              </html>
          A. 19.89
          B. 712.89
          C. 4312.89
          D. 415.89
Ans X 1. A
       X 2. B

√ 3. C

        X 4. D
                                                                                                  Question ID: 5834935419
Q.55 fgets and gets functions are declared in the C header file _
         A. stdio
         B. string
          C. stdlib
         D. conio
Ans

√ 1. A

        🗙 2. B
        X 3. C
        X 4. D
                                                                                                  Question ID: 5834935356
```

Q.56	If the requirements are frequently changing in a software project, which	model among the
	following is best suited to adopt for the project?	
	A. Waterfall model	
	B. RAD model	
	C. Iterative enhancement model	
	D. Prototyping model	
Ans	<b>★</b> 1. A	
	<b>★</b> 2. B	
	<b>X</b> 3. C	
	<b>✓</b> 4. D	
		0 11 15 700 100 100
		Question ID : 5834935406
Q.57	Which of the interrupts are non-maskable?	
	A. RST 7.5	
	B. TRAP	
	C. RST 5.5 D. INTR	
Ans	∑ 1. A	
Alis		
	<b>√</b> 2. B	
	<b>X</b> 3. C	
	<b>X</b> 4. D	
		Question ID : 5834935378
		Question ID : 303433370
Q.58	Which of the following is not a non-functional requirement?	
	A. efficiency	
	B. product feature	
	C. reliability	
Ana	D. stability	
Ans	X 1. A	
	<b>✓</b> 2. B	
	<b>X</b> 3. C	
	<b>X</b> 4. D	
		Question ID : 5834935404
		Question ID : 3034333404
Q.59	An undirected graph G with $'n'$ vertices and $'e'$ edges is represented by	an Adjacency list.
	What is the time required to determine the total number of edges in the	
	A. O(e)	
	B. $O(e^2)$	
	C. O(n)	
	D. O $(n+e)$	
Ans		
AIIS	<b>X</b> 1. A <b>X</b> 2. B	
	X 2. B	
	<b>X</b> 3. C	
	<b>✓</b> 4. D	
		Question ID : 5834935399
		Question ID . 0007300000

A. + B C. ! D. % Ans X 1.A X 2.B	Q.60	Which of the following is logical or relational operator?	
B C. ? D. % Ans		A. +	
C.   D. 96  Ans X 1. A			
D. %  Ans X 1. A  X 2. B  3. C  X 4. D   Cuestion ID : \$834935355   Q.61 The number of successful access to memory stated as a fraction is called as  A. Access rate  B. Sixcess rate  C. Mis rate  D. Illi rate  Ans X 1. A  X 2. B  X 3. C  4. D   Question ID : \$834935377   Question ID : \$834935377   Q.62 Select the correct option regarding functions of ARP.  A. ARP is responsible for CRC checks in the network device to ensure error free package  B. ARP is responsible for matching the IP address to the MAC address of network device.  C. ARP is responsible for matching the Client address to the IP address of client  Ans X 1. A  2. B  X 3. C  X 4. D  Question ID : \$834935353  Question ID : \$834935353			
Ans X 1. A X 2. B			
X 2. B	Ans		
Q.61 The number of successful access to memory stated as a fraction is called as	"		
Q.61 The number of successful access to memory stated as a fraction is called as			
Question ID: 5834935355  Q.61 The number of successful access to memory stated as a fraction is called as			
A. Access rate A. Access rate B. Success rate C. Miss rate D. Hir rate Ans X 1. A X 2. B X 3. C  ✓ 4. D  Question ID: 5834935377   Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377		<b>★</b> 4. D	
A. Access rate A. Access rate B. Success rate C. Miss rate D. Hir rate Ans X 1. A X 2. B X 3. C  ✓ 4. D  Question ID: 5834935377   Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377  Question ID: 5834935377			
A. Access rate B. Success rate C. Miss rate D. Hit rate Ans X 1. A X 2. B X 3. C			Question ID : 5834935355
A. Access rate B. Success rate C. Miss rate D. Hit rate Ans X 1. A X 2. B X 3. C	0.64	Thh	
B. Success rate C. Miss rate D. Hit rate  Ans	Q.61		
C. Miss rate D. Hit rate  Ans X 1. A X 2. B X 3. C 4. D  Question ID: 5834935377  Question ID: 5834935353  Question ID: 5834935353  Question ID: 5834935353			
D. Hit rate  Ans			
Ans			
X 2. B X 3. C 4. D  Question ID: 5834935377  Question ID: 5834935353  Question ID: 5834935353  Question ID: 5834935353	A		
X 3. C  ✓ 4. D  Question ID: 5834935377	Ans		
Question ID: 5834935377  Question ID: 5834935353  Question ID: 5834935353  Question ID: 5834935353		<b>X</b> 2. B	
Question ID: 5834935377  Question ID: 5834935353  Question ID: 5834935353  Question ID: 5834935353		<b>X</b> 3. C	
Question ID: 5834935377  Q.62 Select the correct option regarding functions of ARP.  A. ARP is responsible for CRC checks in the network device to ensure error free package  B. ARP is responsible for matching the IP address to the MAC address of network device.  C. ARP is responsible for applying sequence numbers to the sent package  D. ARP is responsible for matching the Client address to the IP address of client  Ans X 1. A  2. B  X 3. C  X 4. D  Question ID: 5834935353  Question ID: 5834935353			
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A. ARP is responsible for CRC checks in the network device to ensure error free package  B. ARP is responsible for matching the IP address to the MAC address of network device.  C. ARP is responsible for applying sequence numbers to the sent package  D. ARP is responsible for matching the Client address to the IP address of client  Ans			
A. ARP is responsible for CRC checks in the network device to ensure error free package  B. ARP is responsible for matching the IP address to the MAC address of network device.  C. ARP is responsible for applying sequence numbers to the sent package  D. ARP is responsible for matching the Client address to the IP address of client  Ans	Q.62	Select the correct option regarding functions of ARP.	
B. ARP is responsible for matching the IP address to the MAC address of network device.  C. ARP is responsible for applying sequence numbers to the sent package  D. ARP is responsible for matching the Client address to the IP address of client  Ans			
device.  C. ARP is responsible for applying sequence numbers to the sent package  D. ARP is responsible for matching the Client address to the IP address of client  Ans X 1. A  2. B  X 3. C  X 4. D  Question ID: 5834935353  Q.63 Which of the following is used for static allocation of memory in C?  A. malloc  B. realloc  C. calloc  D. None of the above  Ans X 1. A  X 2. B  X 3. C  4. D			
C. ARP is responsible for applying sequence numbers to the sent package D. ARP is responsible for matching the Client address to the IP address of client  Ans			ork
D. ARP is responsible for matching the Client address to the IP address of client  Ans			
Ans X 1. A  2. B  X 3. C  X 4. D  Question ID: 5834935353  Q.63 Which of the following is used for static allocation of memory in C?  A. malloc  B. realloc  C. calloc  D. None of the above  Ans X 1. A  X 2. B  X 3. C  4. D			
✓ 2. B  X 3. C  X 4. D  Question ID: 5834935353  Q.63 Which of the following is used for static allocation of memory in C?  A. malloc  B. realloc  C. calloc  D. None of the above  Ans  X 1. A  X 2. B  X 3. C  ✓ 4. D		D. ARP is responsible for matching the Client address to the IP address of client	ıt
X 3. C X 4. D  Question ID: 5834935353  Q.63 Which of the following is used for static allocation of memory in C?  A. malloc B. realloc C. calloc D. None of the above  Ans X 1. A X 2. B X 3. C  4 4. D	Ans	<b>★</b> 1. A	
X 3. C X 4. D  Question ID: 5834935353  Q.63 Which of the following is used for static allocation of memory in C?  A. malloc B. realloc C. calloc D. None of the above  Ans X 1. A X 2. B X 3. C  4 4. D		<b>✓</b> 2. B	
Q.63 Which of the following is used for static allocation of memory in C?  A. malloc B. realloc C. calloc D. None of the above  Ans X 1. A X 2. B X 3. C  4. D			
Q.63 Which of the following is used for static allocation of memory in C?  A. malloc B. realloc C. calloc D. None of the above  Ans X 1. A X 2. B X 3. C 4. D			
Q.63 Which of the following is used for static allocation of memory in C?  A. malloc B. realloc C. calloc D. None of the above  Ans		<b>★</b> 4. D	
Q.63 Which of the following is used for static allocation of memory in C?  A. malloc B. realloc C. calloc D. None of the above  Ans			0 1: 10
A. malloc B. realloc C. calloc D. None of the above  Ans			Question ID : 5834935353
A. malloc B. realloc C. calloc D. None of the above  Ans	0.63	Which of the following is used for static allocation of memory in C?	
B. realloc C. calloc D. None of the above  Ans	Q.03		
C. calloc D. None of the above  Ans			
D. None of the above  Ans			
Ans			
X 2. B X 3. C ✓ 4. D			
<b>X</b> 3. C	Ans		
<b>★</b> 3. C <b>♦</b> 4. D		<b>X</b> 2. B	
<b>✓</b> 4. D			
Question ID : <b>5834935359</b>		<b>₩</b> 4. U	
Question ID: 3834935359			Ougation ID - F924925259
			Question in . 3034333333

Q.64	The worst-case time required to search a given element in	a sorted singly linked list of length
	'n' is	
	A. O(1)	
	B. O $(log_2 n)$	
	C. O(n)	
	D. O $(n \log_2 n)$	
Ans	<b>★</b> 1. A	
	<b>X</b> 2. B	
	<b>✓</b> 3. C	
	<b>★</b> 4. D	
		Question ID : 5834935397
Q.65	Which of the following C statements is valid?	
	A. if (return (1)) {};	
	B. if (switch(1)) {};	
	C. if (if(1)) {};	
	D. if (2>3?0:1) {};	
Ans	<b>★</b> 1. A	
	<b>★</b> 2. B	
	<b>★</b> 3. C	
	<b>✓</b> 4. D	
		Ougstion ID : 5924025264
		Question ID : 5834935364
Q.66	If an error happens every two days, what is the probability	that the system will not fail for
	four days?	
	A. 0.0625	
	В. 0.375	
	C. 0.25	
	D. 0.5	
Ans	<b>✓</b> 1. A	
	<b>★</b> 2. B	
	<b>X</b> 3. C	
	<b>★</b> 4. D	
	• •	
		Question ID : <b>5834935411</b>

Q.67	The concept of performing a sequence of steps /operations executed to completion as						
	single step is called						
	A Single sten						
	A. Single step B. Monotonicity						
	C. Atomicity						
	D. Periodicity						
Ans	<b>★</b> 1. A						
	<b>★</b> 2. B						
	<b>✓</b> 3. C						
	<b>★</b> 4. D						
			Question ID : 5834935374				
			Question iD : 3634335374				
Q.68	Which of the following are specified	d by the URL?					
	I. protocol used	II. domain name of the server					
	III. name of the ISP	IV. name of the html document					
	A. Only II, III and IV						
	B. Only I, II and IV						
	C. Only I and III						
	D. I, II, III and IV						
Ans	<b>X</b> 1. A						
	<b>✓</b> 2. B						
	<b>X</b> 3. C						
	<b>X</b> 4. D						
			Question ID : 5834935414				
Q.69	Telnet uses the default port of						
	A. 23						
	B. 20						
	C. 21						
	D. 25						
Ans	<b>✓</b> 1. A						
	<b>X</b> 2. B						
	<b>X</b> 3. C						
	<b>★</b> 4. D						
			Question ID : 5834935342				

Q.70	The instruction fetch phase ends with							
	A. Placing the data from the address in MAR into MDR							
B. Placing the address of the data into MAR								
	C. Completing the execution of the data and placing its storage address into MAR							
	D. Decoding the data in MDR and placing it in IR							
Ans	Ans X 1. A							
	<b>X</b> 2. B							
	<b>X</b> 3. C							
	<b>✓</b> 4. D							
		Question ID: 5834935385						
Q.71	The numbers $1, 2, \ldots, n$ are inserted in a binary search tree in the sam	ne order. If its right						
	sub-tree has $'p'$ nodes then the first number to be inserted in the tree m							
	A. $p-n$							
	B. $n - p + 1$							
	C. $n + p$							
	D. $n-p$							
Ans	<b>★</b> 1. A							
	<b>★</b> 2. B							
	<b>★</b> 3. C							
	<b>✓</b> 4. D							
		Question ID : 5834935402						
		Q.300.00.00						
Q.72	The instructions like MOV or ADD are called as							
	A. Op-code							
	B. Operators							
	C. Operand							
A	D. None of the above							
Ans	<b>√</b> 1. A							
	<b>★</b> 2. B							
	<b>★</b> 3. C							
	<b>★</b> 4. D							
		Question ID : 5834935379						
		Question ID : 3004330013						
Q.73	Which of the following is not required for an XML document to be we	ll-formed?						
	A. All XML documents have to be validated against a DTD							
	B. All XML tags are case-sensitive							
	C. All XML elements must be properly nested							
	D. All XML elements must have a closing tag							
Ans	<b>✓</b> 1. A							
	<b>X</b> 2. B							
	<b>X</b> 3. C							
	<b>★</b> 4. D							
		Question ID : 5834935416						

```
Q.74 Output of the given C code fragment is
            int n = 3;
            switch (n+1) {
                  case 3: printf ("%d", n+1);
                         break;
                   case 4: printf (%d", n-1);
                         break; }
         A. 2
         B. 3
         C. 4
         D. 5
Ans

√ 1. A

       🗶 2. B
       X 3. C
       X 4. D
                                                                                              Question ID: 5834935357
Q.75 Zero address instruction format is used for _
         A. Von-Neumann architecture
         B. CISC architecture
         C. Stack-organized architecture
         D. None of the above
Ans X 1. A
       X 2. B

√ 3. C

       X 4. D
                                                                                              Question ID: 5834935381
Q.76 Software compatibility means which of the following?
          A. being able to use existing programs with the new programs
         B. being able to connect hardware together
          C. being able to transfer data between old and new hardware
         D. being able to work on network.
Ans
       X 2. B
       X 3. C
       X 4. D
                                                                                              Question ID: 5834935405
```

	I Information hiding II Define	111	A 14	
	I. Information hiding II. Refinement	III.	Abstraction	
	A. I and II			
	B. I and III			
	C. II and III			
	D. I, II and III			
Ans	X 1. A			
	<b>X</b> 2. B			
	<b>X</b> 3. C			
	<b>✓</b> 4. D			
				Outpetition ID - F02400F400
				Question ID : <b>5834935409</b>
Q.78	Why is type conversion needed?			
	A. Fun			
	B. To match with source data type			
	C. To mismatch the data types for efficient memory handling			
	D. To match with destination data type			
Ans	<b>★</b> 1. A			
	<b>X</b> 2. B			
	<b>X</b> 3. C			
	<b>✓</b> 4. D			
				Question ID : <b>5834935354</b>
 Q.79	The mantissa in a floating-point number is always			
	A. Greater than 1			
	B. Less than 1			
	C. Equal to 1			
	D. Equal to 0			
Ans	<b>★</b> 1. A			
	<b>X</b> 2. B			
	<b>✓</b> 3. C			
	<b>★</b> 4. D			
				Question ID : <b>5834935376</b>
			- 1	QUESTION ID . 0034333310

**Q.80** In the given C code fragment, fill **xxxx** with an appropriate C keyword/function to find the end of file. FILE \*infile = fopen(fn, "r"); len = ftell(infile); if (!xxxx) printf ("End of file is not reached"); A. fseek(infile) B. eof(infile) C. feof(infile) D. EOF Ans X 1. A X 2. B √ 3. C X 4. D Question ID: 5834935358