Sr No.	MSc Computer Science
1	Find the missing term in the following series:
	3,10,29,66,127?
Alt1	164
Alt2	187
Alt3	216
Alt4	218
2	Choose word from the given options which bears the same relationship to the third word, as the first two bears: Flower: Butterfly:: Dirt:?
Alt1	Rats
Alt2	Fly
Alt3	Bugs
Alt4	Sweeper
3	Tiff is to Battle as Frugal is to?
Alt1	Sprint
Alt2	Vague
Alt3	Miserly
Alt4	Vital
Alt1 Alt2	Select the lettered pair that has the same relationship as the original pair of words: Expend: Replenish Exhort: Encourage Formant: Rebellion
	Defect: Rejoin
Alt4	Encroachment: Occupy
	Choose the set that has the same relationship as in the original: Bone : Skeleton : Nerve
	House: Door: Window
	Spoke: Wheel: Handle
	Retina: Eye: Pupil
Alt4	Snow: Cloud: Ice
	Spot the defective segment from the following:
	Only with your help
	I passed the test
	though you helped me
Alt4	at the last minute
7	The government proposes to hanging
	The government proposes to hanging. cancel
	nullify
Alt3	invalidate

Alt4	abolish
	The burglar was hit
	on head
Alt2	on his head
Alt3	on the head
Alt4	in the head
9	Choose the option closest in meaning to the given word:
	COGENT
Alt1	consistent
Alt2	acceptable
Alt3	convincing
Alt4	weak
10	Choose the antonymous option you consider the best:
	PROVIDENT
Alt1	careful
	worldly
	prodigal
	frugal
7	
11	Ravi's brother is 3 years senior to him. His father was 28 years of age when his sister was born while his
	mother was 26 years of age when he was born. If his sister was 4 years of age when his brother was born, what
	was the age of Ravi's father and mother respectively when his brother was born?
	was the age of havis father and mother respectively when his brother was some.
Δl+1	32 years, 23 years
	32 years, 29 years
	35 years, 29 years
	35 years, 33 years
Alt4	33 years, 33 years
12	
12	In each of the following questions some statements are followed by two conclusions (i) and (ii). Doed the
	In each of the following questions some statements are followed by two conclusions (i) and (ii). Read the
	statements carefully and then decide which of the conclsions follow beyond a reasonable doubt. Mark your
	answer as
	Statement: All my films are copies. I am happy to inform of the source when I copy – a producer
	Conclusions:
	(i) The producer does not make even a single film based on his own idea
	(ii) The producer copies domestic and foreign films
Alt1	If only conclusion (i) follows
Alt2	If only conclusion (ii) follows
Alt3	If neither conclusion (i) nor (ii) follows
Alt4	If both the conclusions follow

13	3. What value should come in place of question mark (?) in the following number series?
	14, 28, 46, ?, 94, 124
Alt1	64
Alt2	68
Alt3	72
Alt4	76
14	In a certain code ADVENTURES is written as TDRESAUVEN. How is SURPRISINGwritten in that code?
Alt1	IUIPGSRSNR
Alt2	IUINGSSRRP
Alt3	IUIPGSSRNR
Alt4	IRIPGSSNRR
15	Wax is related to Grease in the same way as Milk is related to
Alt1	Drink
Alt2	Ghee
Alt3	Curd
Alt4	Protein
<u> </u>	
16	The following information is given: Six persons A, B, C, D, E and F are sitting in two rows, three in each.
	E is not at the end of any row.
	D is second to the left of F.
	C, the neighbour of E, is sitting diagonally opposite to D.
	B is the neighbour of F.
	After interchanging seat with E, who will be the neighbours of D in the new position?
Alt1	C and A
Alt2	F and B
Alt3	Only B
	Only A
17	If 30 students occupy 2/3 of the seats in a classroom, how many students would occupy 4/5 of the seats in the
	classroom?
Alt1	36
Alt2	32
Alt3	
Alt4	
18	Mean of the first 10 odd numbers is
Alt1	
Alt2	
Alt3	
Alt4	
10	Two numbers are in the ratio 2:2. If 4 he subtracted from each, they are in the ratio 2:5. Find the numbers

```
Alt1 16,24
Alt2 20,30
Alt3 0.341666667
Alt4 None
 20 It takes 30 seconds to cut the woodlock into 3 pieces. How much time does it takes to cut the same block into 4
    pieces?
Alt1 40secs
Alt2 45secs
Alt3 50secs
Alt4 60secs
 21 Which of the following is Java reserved words?
    1. run
    2. import
    3. default
    4. implement
Alt1 1 and 2
Alt2 2 and 3
Alt3 3 and 4
Alt4 2 and 4
 22 Which of these keywords is not a part of exception handling?
Alt2 finally
Alt3 thrown
Alt4 catch
 23
      void start() {
         A a = new A();
         Bb = new B();
         a.s(b);
         b = null; /* Line 5 */
         a = null; /* Line 6 */
         System.out.println("start completed"); /* Line 7 */
      When is the B object, created in line 3, eligible for garbage collection?
Alt1 after line 5
Alt2 after line 6
Alt3 after line 7
```

Alt4 There is no way to be absolutely certain.

```
24
     publicclassX
     publicstaticvoid main(String [] args)
           X x = new X();
           X x2 = m1(x); /* Line 6 */
           X x4 = new X();
           x2 = x4; /* Line 8 */
           doComplexStuff();
     static X m1(X mx)
           mx = new X();
     return mx;
     After line 8 runs, how many objects are eligible for garbage collection?
Alt1
Alt2
Alt3
Alt4
 25 In the HTTP Request method which is non-idempotent?
Alt1 GET
Alt2 POST
Alt3 BOTH A & B
Alt4 None of these
 26 Which packages represent interfaces and classes for servlet API?
Alt1 javax.servlet
Alt2 javax.servlet.http
Alt3 Both A&B
Alt4 None of these
27 Which is a perfect example of runtime polymorphism?
Alt1 Method overloading
Alt2 Method overriding
```

Alt3	Constructor overloading
Alt4	None of these
28	The class string belongs to package.
	java.awt
Alt2	java.lang
	java.applet
-	java.string
	January 11-0
29	Which of these methods is a part of Abstract Window Toolkit (AWT)?
	display()
-	print()
	drawString()
	transient()
AIL4	transient()
20	Which of the falls in an item of the real harmonical allegate Parities are in a state of the second
	Which Of the Following attributes of the test box control allow to limit the maximum character?
Alt1	
Alt2	Len
Alt3	Max Length
Alt4	All of these
31	The first network that planned the seeds of internet was
Alt1	ARPANET
Alt2	NSFNET
Alt3	VNET
Alt4	Both A and B
-	
32	IPV6 addressed have a size of
Alt1	32 bits
Alt2	64 bits
Alt3	128 bits
-	265 bits
33	Markup tags tell the web browser
Alt1	How to organize the page
	How to display the page
-	How to display message box on page
	None of these
AIL4	None of these
2.4	Which of these standard collection classes implements a dynamic array?
Alt1	AbstractList
	Linked ist
-	Arraylist
Alt4	Abstractset
<u> </u>	
	The tags elements in XML are
Alt1	Case-insensitive

Alt2	Case-sensitive Case-sensitive
Alt3	Browser dependent
Alt4	None of these
36	What does derived class does not inherit from the base class?
Alt1	constructor and destructor
Alt2	friends
Alt3	operator = () members
Alt4	All of these
	Which design patterns benefit from the multiple inheritance?
	Adapter and observer pattern
	Code pattern
	Glue pattern
Alt4	None of these
	If a constructor function is defined in private section of a class, then
	The object cannot be created
	Only member functions and friends may declare objects of the class
	Both (A) & (B)
Alt4	None of these
20	
	The following operators cannot be overloaded
	Unary operator
	Binary operator Toward and a second as
	Ternary operator None of these
AIL4	Notice of these
40	What is garbage collection in the context of Java?
	The operating system periodically deletes all of the java files available on the system.
	Any package imported in a program and not used is automatically deleted.
	When all references to an object are gone, the memory used by the object is automatically reclaimed.
	The JVM checks the output of any java program and deletes anything that does not make sense.
AIL4	The salat checks the output of any java program and defeces diffilling that does not make sense.
	Which method is used to display text on the applet?
Alt1	println()
	showString()
Alt3	drawString()
Alt4	
	1 00
42	Which of these is not abstract?
	Thread
	AbstractList
	List
Alt3	
	None of these

Alt1	PRE and POST
Alt2	GET and SET
Alt3	ASK and REPLY
Alt4	GET and POST
44	What is the correct HTML for inserting a background image?
Alt1	<imgsrc="background.gif" background=""></imgsrc="background.gif">
Alt2	<body background="background.gif"></body>
Alt3	<background img="background.gif"></background>
Alt4	None of these
45	Microsoft XML Schema Data types for Hexadecimal digits representing octates
Alt1	
Alt2	UXID
Alt3	UUID
Alt4	XXID
46	What is the return type of Constructors?
Alt1	int
Alt2	float
Alt3	void
Alt4	None of these
47	Which of these keywords is used to refer to member of base class from a sub class?
Alt1	Upper
Alt2	super
Alt3	this
Alt4	None of these
48	Which of these operators is used to allocate memory for an object?
Alt1	Malloc
Alt2	alloc
Alt3	new
Alt4	give
49	Which of these is correct way of inheriting class A by class B?
Alt1	Class B + class A {}
Alt2	class B inherits class A {}
Alt3	class B extends A {}
Λ I+ <i>1</i>	class R extends class A A

```
What is the error in the following code?
            class Test
               abstract void display();
Alt1 no error
Alt2 method display() should be declared as static
Alt3 test class should be declared as abstract
Alt4 test class should be declared as public
 51 AppletSViewer tool is available in which of the folder of JDK:
Alt1 Bin
Alt2 Lib
Alt3 Source
Alt4 Class
 52 Dynamic interception of requests and responses to transform the information is done by
Alt1 Servlet container
Alt2 servletconfig
Alt3 servlet context
Alt4 servlet filter
 53 Which of these methods can be used to obtain a static array from a ArrayList object()?
Alt1 Array()
Alt2 convertArray()
Alt3 toArray()
Alt4 converttoArray()
 54 Consider a simple connected graph G with n vertices and n-edges (n>2). Then, which of the following statement
    is true?
Alt1 G has no cycles.
Alt2 The graph obtained by removing any edge from G is not connected.
Alt3 The graph obtained by removing any two edges from G is not connected.
Alt4 G is connected
 55 Suppose the numbers 7,5,1,8,3,6,0,9,4,2 are inserted in that order into an initially empty binary search tree. The
    binary search tree uses the usual ordering on natural numbers. What is the in-order traversal sequence of the
    resultant tree
Alt1 7510324689
Alt2 0 2 4 3 1 6 5 9 8 7
Alt3 123456789
Alt4 9 8 6 4 2 3 0 1 5 7
```

56	Which of the following addressing modes permits relocation without any change whatsoever in the code
Alt1	Indirect addressing.
Alt2	indexed addressing.
Alt3	Base registers addressing
Alt4	PC relative addressing
57	The number of full and half adders required to add 16-bit numbers is
Alt1	8 half address, 8 full address
Alt2	1 half address, 15 full address
Alt3	16 half address, 0 full address
Alt4	4half address, 12 full address
58	A 48 bit instruction stored in byte organized memory which of the following decimal address is valid with
	respect to program counter.
Alt1	
Alt2	
Alt3	
Alt4	400
	0 11 11 1 11 15 6 400 1 6 1056 1 1 1 540 1 1 540
	Consider a disk pack with 16 surfaces, 128 tracks per surface and 256 sectors per track. 512 bytes of data are
	stored in a bit serial manner in a sector. The capacity of the disk pack and the no of bits required to specify a
ΛI+1	particular sector in the disk are respectively 256MB, 19bits
	256MB, 28bits
	512MB,20bits
	64GB,28bits
7 116-7	
60	A ROM is used to store the table for multiplication of two 8-bit unsigned integers. The size of ROM required is
Λ I+1	256 x 16
	256 X 16 64K x 8
	4K x 16
	64K x16
AIL4	O-HV VIO

61	A memory page containing a heavily used variable that was initialized very early and is in constant use is removed when
Alt1	LRU page replacement algorithm is used
Alt2	FIFO page replacement algorithm is used
Alt3	LFU page replacement algorithm is used
Alt4	LFG used
62	A counting semaphore was initialized to 10. Then 6 P(wait) operations and 4 V(signal) operations were
	completed on this semaphore. The resulting value of the semaphore is
Alt1	0
Alt2	8
Alt3	10
Alt4	12
63	In a paged segment scheme of memory management, the segment table itself must have a page table because
Alt1	the segment table is often too large to fit in one page
Alt2	each segment is spread over a number of pages
Alt3	segment tables point to page table and not to the physical locations of the segment
Alt4	the processor's description base register points to a page table
64	For the daisy chain scheme of connecting I/O devices, which of the following statements is true?
Alt1	It gives non-uniform priority to various devices
Alt2	It gives uniform priority to all devices
Alt3	It is only useful for connecting slow devices to a processor device
Alt4	It requires a separate interrupt pin on the processor for each device
65	In a resident –OS computer, which of the following systems must reside in the main memory under all
	situations?
Alt1	Assembler
Alt2	Linker
Alt3	Loader
Alt4	Compiler
66	A linker is given object modules for a set of programs that were complied separately. What information need not be included in an object module?
Δl+1	Object modules.

Alt2	Relocation bits.
Alt3	Names and location of all external symbols defined in the object modules.
Alt4	Absolute addresses of internal symbols.
	The pass number for each of the following activities
	(i) object code generation
	(ii) literal added to literal table
	(iii) listing printed
	(iv) address resolution of local symbols
	that occur in a two pass assembler are
Alt1	1,2,1,2
	2,1,2,1
	2,1,1,2
	1,2,2,2
68	Let r be a relation instance with schema R=(A,B,C,D). We define r1= \prod A,B,C (r) and r2= \prod A,D(r) .Let s=r1*r2
	where * denotes natural join .Given that the decomposition of r into r1and r2 is lossy, which one of the
	following is true ?
Alt1	
	r U s = r
Alt3	r C s
AIL4	1.2=2
60	Given the relations
05	employee(name, salary, deptno), and department(deptno, deptname, address)
	which of the following queries cannot be expressed using the basic relational algebra operations $(6,\Pi,X, X ,U,\cap,$
	-)?
Alt1	Departmental address of every employee
Alt2	Employees whose name is the same as their department name
Alt3	The sum of all employee salaries
Alt4	All employees of a given department
70	Consider a schema R(A,B,C,D) and functional dependencies A->B and C->D, then the decomposition of R into
	R1(AB) and R2(CD) is
Alt1	Dependency preserving and lossless join
Alt2	lossless join but not Dependency preserving
	Dependency preserving but not lossless join
	not Dependency preserving and not lossless join

	The situation where a transaction updates a database item and then later fails before completion is referred as
	the
Alt1	Temporary Update
Alt2	Incorrect Update
	Information for all
Alt4	Incorrect Summary
	_ · · · · · · · · · · · · · · · · · · ·
72	Which of the following is NOT true with respect to a transparent bridge and a router?
, _	which of the following is NOT true with respect to a transparent shage and a router:
Alt1	Both bridge and router selectively forward data packets
	A bridge uses IP addresses while a router uses MAC addresses
	A bridge builds up its routing table by inspecting incoming packets
	A router can connect between a LAN and a WAN
AIL4	A Touter can connect between a LAN and a WAN
73	The maximum window size for data transmission using the selective reject protocol with n-bit frame sequence
ļ	numbers is
Alt1	2 power n
Alt2	2 power n-1
Alt3	(2 power n)-1
Alt4	2 power n-2
Alt4	2 power n-2
	An organization has a class B network and wishes to form subnets for 64 departments. The subnet mask would
74	An organization has a class B network and wishes to form subnets for 64 departments. The subnet mask would be
74 Alt1	An organization has a class B network and wishes to form subnets for 64 departments. The subnet mask would be 255.255.0.0
74 Alt1 Alt2	An organization has a class B network and wishes to form subnets for 64 departments. The subnet mask would be 255.255.0.0 255.255.64.0
74 Alt1 Alt2	An organization has a class B network and wishes to form subnets for 64 departments. The subnet mask would be 255.255.0.0
74 Alt1 Alt2 Alt3	An organization has a class B network and wishes to form subnets for 64 departments. The subnet mask would be 255.255.0.0 255.255.64.0
74 Alt1 Alt2 Alt3 Alt4	An organization has a class B network and wishes to form subnets for 64 departments. The subnet mask would be 255.255.0.0 255.255.64.0 255.255.128.0 255.255.252.0
74 Alt1 Alt2 Alt3 Alt4	An organization has a class B network and wishes to form subnets for 64 departments. The subnet mask would be 255.255.0.0 255.255.64.0 255.255.128.0
74 Alt1 Alt2 Alt3 Alt4	An organization has a class B network and wishes to form subnets for 64 departments. The subnet mask would be 255.255.0.0 255.255.64.0 255.255.128.0 255.255.252.0
74 Alt1 Alt2 Alt3 Alt4	An organization has a class B network and wishes to form subnets for 64 departments. The subnet mask would be 255.255.0.0 255.255.64.0 255.255.128.0 255.255.252.0
74 Alt1 Alt2 Alt3 Alt4 75 Alt1	An organization has a class B network and wishes to form subnets for 64 departments. The subnet mask would be 255.255.0.0 255.255.64.0 255.255.128.0 255.255.252.0 In Ethernet when Manchester encoding is used, the bit rate is
74 Alt1 Alt2 Alt3 Alt4 75 Alt1 Alt2	An organization has a class B network and wishes to form subnets for 64 departments. The subnet mask would be 255.255.0.0 255.255.64.0 255.255.128.0 255.255.252.0 In Ethernet when Manchester encoding is used, the bit rate is half the baud rate
74 Alt1 Alt2 Alt3 Alt4 75 Alt1 Alt2 Alt3	An organization has a class B network and wishes to form subnets for 64 departments. The subnet mask would be 255.255.0.0 255.255.64.0 255.255.128.0 255.255.252.0 In Ethernet when Manchester encoding is used, the bit rate is half the baud rate twice the baud rate same as the baud rate
74 Alt1 Alt2 Alt3 Alt4 75 Alt1 Alt2 Alt3	An organization has a class B network and wishes to form subnets for 64 departments. The subnet mask would be 255.255.0.0 255.255.64.0 255.255.128.0 255.255.252.0 In Ethernet when Manchester encoding is used, the bit rate is half the baud rate twice the baud rate
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74 Alt1 Alt2 Alt3 Alt4 75 Alt1 Alt2 Alt3 Alt4 76 Alt1	An organization has a class B network and wishes to form subnets for 64 departments. The subnet mask would be 255.255.0.0 255.255.64.0 255.255.128.0 255.255.252.0 In Ethernet when Manchester encoding is used, the bit rate is half the baud rate twice the baud rate same as the baud rate thrice the baud rate thrice the baud rate What is the maximum size of data that the application layer can pass on to the TCP layer below? any size
74 Alt1 Alt2 Alt3 Alt4 75 Alt1 Alt2 Alt3 Alt4 Alt4 Alt4 Alt4 Alt4 Alt4	An organization has a class B network and wishes to form subnets for 64 departments. The subnet mask would be 255.255.00 255.255.64.0 255.255.128.0 255.255.252.0 In Ethernet when Manchester encoding is used, the bit rate is half the baud rate twice the baud rate twice the baud rate thrice the baud rate thrice the baud rate What is the maximum size of data that the application layer can pass on to the TCP layer below?
74 Alt1 Alt2 Alt3 Alt4 75 Alt1 Alt2 Alt3 Alt4 76 Alt1 Alt2	An organization has a class B network and wishes to form subnets for 64 departments. The subnet mask would be 255.255.0.0 255.255.64.0 255.255.128.0 255.255.252.0 In Ethernet when Manchester encoding is used, the bit rate is half the baud rate twice the baud rate same as the baud rate thrice the baud rate thrice the baud rate What is the maximum size of data that the application layer can pass on to the TCP layer below? any size

77	Which of the following is the most powerful parsing method?
Alt1	LL(1)
Alt2	Canonical LR
Alt3	
	LALR
78	The formal model used for Lexical Analyzer is
Alt1	Finite Automata
Alt2	Push Down Automata
Alt3	two push down tape machine
Alt4	Turing Machine
Alta	
79	In a bottom-up evaluation of a syntax directed definition, inherited attributes can
Alt1	always be evaluated
Alt2	be evaluated only if the definition is L-attributed
Alt3	be evaluated only if the definition has synthesized attributes
Alt4	never be evaluated
80	Given an arbitrary non-deterministic finite automaton (NFA) with N states, the maximum number of states in an equivalent minimized DFA is atleast
Alt1	N power 2
Alt2	2 power N
Alt3	2N
Alt4	N!
81	Turing machine made up of how many tuples.
Alt1	3
Alt2	2
Alt3	6
Alt4	7
82	Which of the following four regular expressions are equivalent? (i) (00)* (ε+0) (ii) (00)* (iii) 0* (iv) 0(00)*
Alt1	(i) and (ii)
Alt2	(ii) and (iii)

Alt3 (i) and (iii)
Alt4 (iii) and (iv)
83 The languages of primes in unary is
Alt1 regular
Alt2 CFL
Alt3 DCFL
Alt4 context sensitive
84 Which of the following set can be recognized by a Deterministic Finite-state Automaton?
Alt1 The numbers 1,2,4,8,, 2n, written in binary
Alt2 The numbers 1,2,4,8,, 2n, written in unary
Alt3 The set of binary string in which the number of zeros is the same as the number of ones
Alt4 The set {1, 101, 11011, 1110111,}
Choose the function which is not continuous at some $x \in \mathcal{R}$. A. $f(x) = \sin x + \cos x$ B. $f(x) = \sin x - \cos x$ C. $f(x) = \sin x \cos x$ D. $f(x) = \cot x$
Alt1 A
Alt2 B
Alt3 C
Alt4 D
The local maximum value of the function $f(x) = x^3 - 12x + 6$ is A. 11 B. 22 C10 D. 17
Alt1 A
Alt2 B
Alt3 C
Alt4 D
·

If
$$u = \sin^{-1}\left(\frac{x-y}{x^2+y^2}\right)$$
 then $x\frac{\partial u}{\partial x} + y\frac{\partial u}{\partial y} = A$. $-\tan u$
B. $\tan u$
C. $\cot u$
D. $2\tan u$

Alt1	A
Alt2	В
Alt3	С
Alt4	D

88	The function $f: R \to R$ is not one-one for $f(x) = A$. x B. $x + 1$ C. $ x $ D. x^3
Alt1	A
Alt2	В
Alt3	C
Alt4	D

89	Consider the function $f(x) = 9x^2 + 6x - 5$ defined on R_+ . The range of f is A. $[-5, \infty)$ B. $[5, \infty)$ C. $(5, \infty)$ D. $(-\infty, -5)$
Alt1	A
Alt2	В
Alt3	C
Alt4	D

	If $f: R \to R$ and $g: R \to R$ are given by $f(x) = \cos x$ and $g(x) = \frac{\pi}{2} + x$ then $ (f \circ g)(x) = $ A. $-\sin x$ B. $-\cos x$ C. $\sin x$ D. $\frac{\pi}{2} + \cos x$
Alt1	A
Alt2	В
Alt3	С
Alt4	D

Consider the following statements:
S1. Any onto function f: {1,2,3} → {a, b, c} is always one-one.
S2. Any one-one function f: {1,2,3} → {a, b, c} is always onto.
Then the statements S1 and S2 are
A. Both False
B. Both True
C. True and False, respectively
D. False and True, respectively.

Alt1 A
Alt2 B
Alt3 C
Alt4 D

The function $f(x) = \begin{cases} cx(1-x)^3, & 0 < x < 1 \\ 0 & elsewhere \end{cases}$ is a p.d.f. for the constant c = A. 10

B. 20

C. 30

D. 40

Alt1 A

Alt2 B

Alt3 C

Alt4 D

If the two mutually exclusive events A and B are such that $P(A) = \frac{1}{2}$, $P(A \cup B) = \frac{3}{5}$ and P(B) = p, then the value of p is

A. $\frac{1}{5}$ B. $\frac{2}{5}$ C. $\frac{1}{10}$ D. $\frac{3}{10}$ Alt 1 A

Alt 2 B

Alt 3 C

Alt 4 D

The points (3,1,-2), (6, 4, -5) and (k, 2, -3) are collinear if k =

A. -6

B. 6

C. -4

D. 4

Alt1 A

Alt2	В
Alt3	C
Alt4	D D
95	The equation of the line parallel to the x-axis and passing through the origin is A. $x = y = z$ B. $\frac{x}{1} = \frac{y}{0} = \frac{z}{0}$ C. $\frac{x}{0} = \frac{y}{1} = \frac{z}{1}$ D. $\frac{x}{0} = \frac{y}{0} = \frac{z}{0}$
Alt1	A
Alt2	
Alt3	
Alt4	
96	The system of equations $x + y + 2z = 0$, $2x + y - z = 0$, and $2x + 2y + \lambda z = 0$ has an unique solution for the value $\lambda \neq A$. 1 B. 2 C. 3 D. 4
Alt1	A A
Alt2	
Alt3	
Alt4	
97	The interval in which the function $f(x) = 2x^3 + 3x^2 - 12x + 6$ is strictly decreasing is A. $(-\infty, -2)$ B. $(-2,1)$ C. $(1,\infty)$ D. $(-\infty,1)$
Alt1	A
Alt2	
Alt3	
Alt4	D
98	Let $A = \{1,2,3\}$. Then the number of equivalence relations containing (2,3) is A. 1 B. 2 C. 3 D. 4

Alt1 A Alt2 B

Alt3	
Alt4	
99	If X is the number obtained on a throw of an unbiased die, then $E(X^2) = A$. $\frac{83}{6}$ B. $\frac{87}{4}$ C. $\frac{89}{4}$ D. $\frac{91}{6}$
Alt1	<u></u>
Alt2	
Alt3	
Alt4	
7110-7	
100	If A and B are two independent events, then the probability of occurrence of at least one of A and B is given by A. $P(A')P(B')$ B. $1 - P(A')P(B')$ C. $P(A') - P(B')$ D. $(1 - P(A'))(1 - P(B'))$
Alt1	
Alt2	
Alt3	
Alt4	

Examination: M.Sc. Computer Science
Section 1 - Section 1
Augustion No.1 Bookmark □ In the bakery algorithm to solve the critical section problem: Each process receives a number (may or may not be unique) and the one with the lowest number is served next Each process gets a unique number and the one with the highest number is served next Each process gets a unique number and the one with the lowest number is served next Each process is put into a queue and picked up in an ordered manner
Question No.2 RAD Model has ○ 3 phase ○ 6 phases ○ 2 phases ○ 5 phases
Question No.3 Bookmark □ In a two digit number, the digit in the unit's place is two more than the three times of the digit in ten's place. If the sum of the two digits is 6, the number is 42 15 24 51
Question No.4 Bookmark □ is rearranging pairs of elements which are out of order, until no such pairs remain. Distribution Selection Exchange Insertion
Question No.5 Bookmark ☐ The usefulness of signals as a general inter process communication mechanism is limited because: They are system generated They do not work between processes They are user generated They cannot carry information directly

Question No.6 4.00 Bookmark ? D (1) (2)(3)(4)C 4 0 1 O 3 02 **Question No.7** 4.00 Bookmark □ To avoid the race condition, the number of processes that may be simultaneously inside their critical section is 002 0.1 04 **Question No.8** 4.00 Bookmark Which of the following is true regarding referential integrity? © Every primary-key value must match a primary-key value in an associated table © Every foreign-key value must match a primary-key value in an associated table © Every primary-key value must match a foreign-key value in an associated table © Every foreign-key value must match a foreign-key value in an associated table

Question No.9	4.00
T	Bookmark □
The goal of hashing is to produce a search that takes	
© O(log n) time	
[©] O(n ²) time	
O(1) time	
○ O(nlog n) time	
Question No.10	4.00
	Bookmark □
Which of the following IP address class is multicast?	
○ Class C	
○ Class A	
○ Class B	
○ Class D	
Question No.11	4.00
Question No.11	Bookmark □
What is the best case complexity of QuickSort?	
○ O(n)	
○ O(n ²)	
O(logn)	
O(nlogn)	
Question No.12	4.00
QUUSUOTI NO.12	Bookmark □
Which of the following is not the required condition for binary search algorithm?	
Number values should only be present	
○ The list must be sorted	
There should be the direct access to the middle element in any sub list	
There must be mechanism to delete and/or insert elements in list.	
Question No.13	4.00
	Bookmark □
If 5 boys take 7 hours to pack 35 cartoons, then how many boys can pack 66 cartoons in	n 3 hours?
© 22 © 39	
© 39 © 26	
C 45	
€ 1 0	
Question No.14	4.00
A process is	Bookmark 🗆
C Contents of main memory	
© A job in secondary memory	
© A program in execution	
C A program in high language kept on disk	
, -9999	

Question No.15
Bookmark ☐ A binary search tree whose left subtree and right subtree differ in height by utmost 1 unit is called
C Lemma tree
○ Red-black tree
○ AVL tree
○ B-tree
Question No.16 4.00
Bookmark ☐ In an entity-relationship diagram "Diamonds" represents
© Relationship sets
C Attributes
○ Weak entity set
Multi-valued attributes
Question No.17 4.00
Under multiprogramming, turnaround time for short jobs is usually and that for long jobs is
slightly
C Lengthened; Shortened
C Shortened; Unchanged C Shortened
© Shortened; Lengthened
Question No.18 4.00 Bookmark
If the number of records to be sorted is small, then sorting can be efficient.
○ Merge
© Heap
© Bubble © Selection
O Selection
Question No.19 4.00
Bookmark ☐ Which form has a relation that possesses data about an individual entity:
o 2NF
C 5NF
O 4NF
O 3NF
Question No.20 4.00
Bookmark
Let P be a quicksort program to sort numbers in ascending order using the first element as pivot. Let t1 and t2 be the number of comparisons made by P for the inputs {1, 2, 3, 4, 5} and {4, 1, 5, 3, 2}
respectively. Which one of the following holds?
© t1 > t2 © t1 = 5
O t1 = t2
© t1 < t2

Question No.21	4.00
Daisy chain is a device for	Bookmark □
Connecting a number of controller to devices	
Connecting a number of devices to controller	
 Interconnecting a number of devices to number of controllers 	
 Connecting a number of drivers to a controller 	
Question No.22	4.00 Bookmark
Study the following information carefully and answer the question below it (i) There is a gro	
persons- A, B, C, D and E (ii) One of them is manual scavenger, one is sweeper, one is weeper, one is weeper.	
one is human scarecrow and one is grave-digger (iii) Three of them – A, C and grave-diggetea to coffee and two of them – B and the watchman prefer coffee to tea (iv) The human sc	
and D and A are friends to one another but two of these prefer coffee to tea. (v) The manual	
scavenger is C's brother Which of the following groups includes a person who likes tea bu	t is not a
grave-digger? © BD	
O DE	
O BCE	
O None of the above	
S Helic of the above	
Question No.23	4.00
In dynamic programming, the technique of storing the previously calculated values is called	Bookmark □
Saving value property	
© Memoization	
Storing value property	
© Mapping	
Question No.24	4.00 Bookmark □
Study the following information carefully and answer the question below it	BOOKINAIK [_
In a family, Isha is the granddaughter of Asha. Deepa is the mother of Hansa. Charan is the	
Anand. Radha is the mother offsha. Deepa is the sister of Vinod and Charan. Nagesh has children, Gita and Hansa. Emesh is the only grandson in the family. Charan is not married.	
the daughter-in-law of Anand.	Nauria 15
Who is married to Radha?	
O Charan	
○ Anand	
○ Nagesh	
© Vinod	
O (N . 05	1.00
Question No.25	4.00 Bookmark □
In the following question, the first two words (given in italics) have a definite relationship.	
one word out of the given four alternatives which will fill the blank space and showthe sa	me
relationship with the third word as between the first two.	
Latex is to Rubber as Flax is to?	
O Silk	
O Jute	
© Cotton	
© Linen	

Question No.26	4.00 Bookmark □
Which of the following operation is used if we are interested in only certain columns of a ta SOLIN SELECTION SCREATE SUNION	ble.
Question No.27	4.00 Bookmark □
A tree of n nodes will have number of edges. on(n-1) n-1 n(n-1)/2 1	DOOKINAIK
Question No.28	4.00
The method of mining silver varies from place to place,? o does it? o isn't it? o is it? o doesn't it?	Bookmark □
Question No.29	4.00
In a two pass assembler the object code generation is done during the O Not done by the assembler O First pass O Zeroeth pass O Second pass	Bookmark
Question No.30	4.00
Don't care conditions can be used for simplifying Boolean expressions in Examples K-maps Latches Terms	Bookmark
Question No.31	4.00
provides a connection-oriented reliable service for sending messages. TCP IP DHCP UDP	Bookmark

Question No.32	4.00
Build & Fix Model is suitable for programming exercises of LOC (Line of Co 100-200	Bookmark ☐ ode).
© above 1000 © 200-400	
Question No.33	4.00 Bookmark
What does FAT stands for?	BOOKIIIAIK [_
File attribute typeFormat All Tabs settings	
© File allocation table	
○ File for all type	
Question No.34	4.00
Identify the data structure which allows deletions at both ends of the list but insertion at only Priority Queues	Bookmark ☐ one end.
StackOutput restricted dequeue	
© Input restricted dequeue	
Question No.35	4.00 Bookmark □
Choose the synonym of the italicized word. Some people are extremely <i>fastidious</i> in their choice of dress. © pompous	
C discriminating	
○ fussy ○ careless	
Question No.36	4.00 Bookmark □
In a J-K Flip flop the function K=J' is used to realize	DOORIIIAIR [
C T-Flip-Flop C D-Flip-Flop	
© M/S J-K Flip-Flop	
○ S-R Flip-Flop	
Question No.37	4.00
Statements: Buses are cars. Cycles are cars Conclusion: I. Cars are buses II. Buses are Cycles	Bookmark □
If only conclusion I follows	
C If only conclusion II follows	
If neither I nor II followsIf either I or II follows	

4.00
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4.00
4.00 1.00
4.00
4.00 1.00
4.00 1.00
4.00
4.00
1

Question No.44	4.00
Predictive parsers can be	Bookmark □
© Constructive	
Recursive and constructive	
O Non-recursive	
© Recursive	
Recuisive	
Question No.45	4.00 Bookmark
Routing tables of a router keeps track of	DOOKIIIAI K
Routes to use for forwarding data to its destination	
© MAC address assignment	
© Port assignment to network devices	
O Distribute IP address to network devices	
Question No.46	4.00
	Bookmark □
Choose the correct meaning of the italicized idiom.	
The police <i>cordoned off</i> the area after the explosion.	
C checked everyone in the area	
o filled the whole area	
O did not allow anyone to leave the area	
isolated the area	
Question No.47	4.00
Question No.47	4.00 Bookmark □
Two trains running in opposite directions cross a man standing on the platform in 27 second	Bookmark ☐ Is and 17
Two trains running in opposite directions cross a man standing on the platform in 27 second seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is:	Bookmark ☐ Is and 17
Two trains running in opposite directions cross a man standing on the platform in 27 second seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is : © 3:04	Bookmark ☐ Is and 17
Two trains running in opposite directions cross a man standing on the platform in 27 second seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is : ○ 3:04 ○ 3:02	Bookmark ☐ Is and 17
Two trains running in opposite directions cross a man standing on the platform in 27 second seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is : 3:04 3:02 1:03	Bookmark ☐ Is and 17
Two trains running in opposite directions cross a man standing on the platform in 27 second seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is : ○ 3:04 ○ 3:02	Bookmark ☐ Is and 17
Two trains running in opposite directions cross a man standing on the platform in 27 second seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is : 3:04 3:02 1:03 3:05	Bookmark ☐ Is and 17
Two trains running in opposite directions cross a man standing on the platform in 27 second seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is : 3:04 3:02 1:03	Bookmark □ Is and 17
Two trains running in opposite directions cross a man standing on the platform in 27 second seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is : 3:04 3:02 1:03 3:05 Question No.48	Bookmark Is and 17 4.00 Bookmark
Two trains running in opposite directions cross a man standing on the platform in 27 second seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is : 3:04 3:02 1:03 3:05 Question No.48 How many bricks, each measuring 25 cm X 11.25 cm X 6 cm, will be needed to build a wall 6 m X 22.5 cm?	Bookmark Is and 17 4.00 Bookmark
Two trains running in opposite directions cross a man standing on the platform in 27 second seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is : 3:04 3:02 1:03 3:05 Question No.48 How many bricks, each measuring 25 cm X 11.25 cm X 6 cm, will be needed to build a wall	Bookmark Is and 17 4.00 Bookmark
Two trains running in opposite directions cross a man standing on the platform in 27 second seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is : 3:04 3:02 1:03 3:05 Question No.48 How many bricks, each measuring 25 cm X 11.25 cm X 6 cm, will be needed to build a wall 6 m X 22.5 cm?	Bookmark Is and 17 4.00 Bookmark
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Two trains running in opposite directions cross a man standing on the platform in 27 second seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is :	Bookmark 4.00 Bookmark of 8 m X
Two trains running in opposite directions cross a man standing on the platform in 27 second seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is:	Bookmark 4.00 Bookmark of 8 m X
Two trains running in opposite directions cross a man standing on the platform in 27 second seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is:	Bookmark 4.00 Bookmark of 8 m X

Question No.50	4.00
The difference between simple and compound interests compounded annually on a certa money for 2 years at 4 % per annum is Re. 1. The sum (in Rs.) is :	Bookmark ☐ iin sum of
© 650 © 630	
○ 625	
Question No.51	4.00
Who was first to propose the Cleanroom philosophy in software engineering? Mills, Dyer Mills and Linger	Bookmark
○ Mills, Dyer and Linger○ Dim Berners Lee	
O DIM Berners Lee	
Question No.52	4.00 Bookmark □
What is the number of moves required in the Tower of Hanoi problem for k disks? © 2k + 1	
[○] 2 ^k – 1	
C 2k – 1	
C 2 ^k + 1	
Question No.53	4.00 Bookmark □
The main difference between a register and a counter is	
The main difference between a register and a counter is C A counter has capability to store one bit of information but register has n-bits A counter has no specific sequence of states A register has capability to store one bit of information but counter has n-bits	
The main difference between a register and a counter is C A counter has capability to store one bit of information but register has n-bits C A counter has no specific sequence of states	
The main difference between a register and a counter is C A counter has capability to store one bit of information but register has n-bits A counter has no specific sequence of states A register has capability to store one bit of information but counter has n-bits A register has no specific sequence of states Question No.54 What is the asymptotic runtime for traversing all nodes in a binary search tree with n node	Bookmark 4.00 Bookmark
The main difference between a register and a counter is C A counter has capability to store one bit of information but register has n-bits A counter has no specific sequence of states A register has capability to store one bit of information but counter has n-bits A register has no specific sequence of states Question No.54 What is the asymptotic runtime for traversing all nodes in a binary search tree with n node printing them in order? C O(log n)	Bookmark 4.00 Bookmark
The main difference between a register and a counter is A counter has capability to store one bit of information but register has n-bits A counter has no specific sequence of states A register has capability to store one bit of information but counter has n-bits A register has no specific sequence of states Question No.54 What is the asymptotic runtime for traversing all nodes in a binary search tree with n node printing them in order? O(log n) O(n ²)	Bookmark 4.00 Bookmark
The main difference between a register and a counter is C A counter has capability to store one bit of information but register has n-bits C A counter has no specific sequence of states C A register has capability to store one bit of information but counter has n-bits C A register has no specific sequence of states Question No.54 What is the asymptotic runtime for traversing all nodes in a binary search tree with n node printing them in order? C O(log n)	Bookmark 4.00 Bookmark
The main difference between a register and a counter is A counter has capability to store one bit of information but register has n-bits A counter has no specific sequence of states A register has capability to store one bit of information but counter has n-bits A register has no specific sequence of states Question No.54 What is the asymptotic runtime for traversing all nodes in a binary search tree with n node printing them in order? O(log n) O(n ²) O(n)	Bookmark 4.00 Bookmark sand
The main difference between a register and a counter is A counter has capability to store one bit of information but register has n-bits A counter has no specific sequence of states A register has capability to store one bit of information but counter has n-bits A register has no specific sequence of states Question No.54 What is the asymptotic runtime for traversing all nodes in a binary search tree with n node printing them in order? O(log n) O(n ²) O(n) O(nlog(n))	Bookmark
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The main difference between a register and a counter is A counter has capability to store one bit of information but register has n-bits A counter has no specific sequence of states A register has capability to store one bit of information but counter has n-bits A register has no specific sequence of states Question No.54 What is the asymptotic runtime for traversing all nodes in a binary search tree with n node printing them in order? O(log n) O(n²) O(n) O(nlog(n)) Question No.55 In which one of the following page replacement policies, Belady's anomaly may occur?	Bookmark 4.00 Bookmark sand

Question No.56	4.00
	Bookmark □
Annual income of A is 10% more than of B whereas income of B is 20% more than that of C. monthly income of C is Rs.2000 then what is the sum of monthly incomes of A, B and C?	lf
© 6872	
° 7040	
C 7772	
€ 7046	
Question No.57	4.00
A right triangle with sides 3 cm, 4 cm and 5 cm is rotated the side of 3 cm to form a cone. Th	Bookmark
of the cone so formed is:	e volume
^O 15πcm ³	
C 12πcm ³	
12116111	
^ℂ 16πcm ³	
C 20πcm ³	
20110111	
Question No.58	4.00
	Bookmark □
Page stealing is	
C A sign of an efficient system	
C A Abstract Data Structure	
C Taking larger spaces for pages paged out	
C Taking page frames from other working sets	
Question No.59	4.00
	Bookmark □
Based on the information given answer the following question.	
 In a family of six persons, there are people from three generations. Each has separate pro and they like different colours. There are two couples. 	fessions
Shyam is an Engineer and his wife is not a doctor and she does not like Red colour.	
3. Chartered Accountant likes green colour and his wife is a teacher.	
4. Manisha is the mother-in-law of Sunita and she likes orange colour.5. Vimal is the grand father of Tarun and tarun is the Principal and likes black colour.	
6. Nyna is the grand daughter of Manisha and she likes blue colour. Nyna's Mother likes white	e colour.
M/high Calauria liked by the Comite 2	
Which Colour is liked by the Sunita? © Cannot be determined	
© Black	
© Green	
© White	
- Think	
Question No.60	4.00
The rule that a value of a foreign key must appear as a value of some specific table is called	Bookmark ☐ a
O Index	
© Referential constraint	
C Integrity constraint	
© Functional dependency	

Question No.61	4.00
Study the following information carefully and answer the question below it:	Bookmark <u></u> □
Aasha, Bhuvnesh, Charan, Danesh, Ekta, Farhan, Ganesh and Himesh are sitting around a facing the centre. Aasha sits fourth to the right of Himesh while second to the left of Farhan not the neighbour of Farhan and Bhuvnesh. Danesh sits third to the right of Charan. Himesh next to Ganesh.	n. Charan is
Which is the position of Farhan with respect to Ekta? Fourth to the right Third to the left Second to the right Sixth to the left	
is very useful in situation when data have to be stored and then retrieved in reverse C List	4.00 Bookmark ☐ erse order.
© Stack © Linked List © Queue	
Which-one of the following statement about normal forms is FALSE? Any relation with two attributes is BCNF Loss less, dependency – preserving decomposition into BCNF is always possible BCNF is stricter than 3 NF Lossless, dependency -preserving decomposition into 3 NF is always possible	4.00 Bookmark
Which-one of the following statement about normal forms is FALSE? Any relation with two attributes is BCNF Loss less, dependency – preserving decomposition into BCNF is always possible BCNF is stricter than 3 NF	Bookmark <u></u>

Question No.66	4.00
	Bookmark
Choose the best antonym of the italicized word. The principal <i>deprecated</i> the attitude of some student-leaders.	
© appreciated	
© tolerated	
O derided	
© ignored	
- Ignored	
Question No.67	4.00
	Bookmark □
Which number replaces the question mark?	
6 7 2	
22	
17 5	
13 4 ?	
0 3	
0.1	
0 2	
0.4	
Question No.68	4.00
Question No.00	Bookmark
Three bells toll at the intervals of 10, 15 and 24 minutes. All the three begin to toll together at	
what time they will again toll together	
O 10AM	
© 8.50AM	
O 10.45AM	
O 9.25AM	
Question No.69	4.00 Bookmark □
Fill in the blank with the correct form of the verb.	DOOKIIIAI K
The International Women's Day with great enthusiasm by our university las	t month.
○ celebrated	
C has celebrated	
○ was celebrated	
○ is celebrated	
Question No.70	4.00
1, 4, 27, 16, ?, 36, 343	Bookmark □
0 25	
O 132	
O 125	
0 72	
~ · · · ·	
Question No.71	4.00
	Bookmark □
Which data structure can be used to test a palindrome?	
O Priority queue	
○ Heap	
○ Tree	
○ Stack	

Question No.72	4.00 Bookmark ┌┐
Which of the following problems is NOT solved using dynamic programming?	_
Matrix chain multiplication problem	
○ 0/1 knapsack problem	
C Edit distance problem	
© Fractional knapsack problem	
Question No.73	4.00
Page fault frequency in an operating system is reduced when the	Bookmark □
C Locality of reference is applicable to the process	
© Processes tend to be CPU-bound	
© Size of pages is increased	
C Processes tend to be of an equal ratio of the I/O-bound and CPU-bound	
The second term to be or an equal ratio or the Fe bound and or a bound	
Question No.74	4.00 Bookmark □
The cube root of 1331 is	BOOKIIIAIK [
O 17	
C 11	
o 13	
o 19	
Question No.75	4.00
Choose the most appropriate preposition to fill the blank:	Bookmark □
The mathematics exam will be held between 24pm.	
○ and	
○ from	
○ to	
Cort	
C at	
Question No.76	4.00
Bottom parsing involves	Bookmark
Shift reduce and handle pruning	
© Shift reduce	
○ Operator check	
C Handle pruning	
Question No.77	4.00
Quistion Non	Bookmark
For an undirected graph with n vertices and e edges, the sum of the degree of each vert	
C 2e	
C (2n-1)/2	
© 2n	
$^{\circ}$ (e ² + 1)/2	

Question No.78	4.00
How many bits are there in the Ethernet address?	Bookmark □
O 64 bits	
O 32 bits	
O 16 bits	
○ 48 bits	
Question No.79	4.00 Bookmark □
66 cubic centimeters of silver is drawn into a wire 1 mm in diameter. The length of the	-
will be :	
○ 84	
○ 90	
○ 336	
○ 168	
Question No.80	4.00
	Bookmark □
The processes that are residing in main memory and are ready and waiting to execute list called:	are kept on a
© execution queue	
o job queue	
o process queue	
o ready queue	
Overtion No 04	
Question No.81	4.00
	Bookmark □
Which of the following is not an information domain required for determining function po Number of external Interfaces	Bookmark □
Which of the following is not an information domain required for determining function po	Bookmark □
Which of the following is not an information domain required for determining function po	Bookmark □
Which of the following is not an information domain required for determining function po Number of external Interfaces Number of user Input	Bookmark □
Which of the following is not an information domain required for determining function por Number of external Interfaces Number of user Input Number of errors Number of user Inquiries	Bookmark ☐ bint in FPA ?
Which of the following is not an information domain required for determining function por Number of external Interfaces Number of user Input Number of errors	Bookmark ☐ bint in FPA ?
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Question No.84	4.00 Bookmark <u></u>
What is storage class of variable A in below code?	
void main()	
{ int A;	
A = 10;	
printf("%d", A);	
© Register	
○ static	
○ Auto	
© Extern	
Question No.85	4.00
The recurrence relation capturing the optimal execution time of the Towers of Hanoi prob	Bookmark lem with n
discs is	JICITI WILITI
\circ T(n) = 2T(n-1) + 1	
C T(n) = 2T(n/2) + 1	
○ T(n) = 2T(n-1) + n ○ T(n) = 2T(n-2) + 2	
○ 1(II) = 21(IP2) · 2	
Question No.86	4.00
The number of full and half-adders required to add 16-bit numbers is	Bookmark 🗖
© 8 half-adders, 8 full-adders	
○ 1 half-adder, 15 full-adders	
O 4 half-adders, 12 full-adders	
○ 16 half-adders, 0 full-adders	
Question No.87	4.00
You wouldn't tell them what happened,	Bookmark □
© would you?	
○ won't you?	
© wouldn't you?	
○ isn't it?	
Question No.88	4.00
	Bookmark □
How many two-input "AND" and "OR" gates are required to realize Y = CD + EF + G? ○ 3, 3	
○ 3, 2	
○ 2,3	
○ 2, 2	

Question No.89	4.00
Which three situations might require multiple routing protocols in a network? a) When a new Layer 2-only switch is added to the network b) When you are migrating from one routing protocol to another c) When you are using routers from multiple vendors d) When there are host-based routers from multiple vendors	Bookmark
© B,C,D © A,B,C © A,C,D © A,B,D	
Question No.90 A fraction which bears the same ratio to 1/27 as 3/11 bear to 5/9 is equal to © 3/11 © 1/11	4.00 Bookmark □
© 1/55 © 55	A
A graphical technique for finding if changes and variation in metrics data are meaningful is as Function points analysis Control Chart DRE (Defect Removal Efficiency) Control Flow Chart Inspection	Bookmark known
Question No.92 DHCP server provides to the client □ IP Address □ Protocol □ MAC Address □ Network Address	4.00 Bookmark □
Question No.93 What is the maximum number of edges in a bipartite graph having 10 vertices? 24 21 16 25	4.00 Bookmark ☐

Question No.94 4.00
Bookmark <u></u>
is known as a greedy algorithm, because it chooses at each step the cheapest edge to
add to subgraph S.
Kruskai's algorithm Reinde algorithm
O Prim's algorithm
O Bellman ford algorithm
O Dijkstra algorithm
Question No.95
Bookmark □
If black is called white, white is called red, red is called pink, pink is called green, green is called blue, what would be the colour of human blood?
© Pink
© Blue
O Green
© White
Question No.96 4.00
Bookmark □
The average of first 50 natural numbers is
C 12.25
C 25
C 25.5
C 25.3
Question No.97
Bookmark □
The curved surface area of a cylindrical pillar is 264 m ² and its volume is 924 m ³ . Find the ratio of its
diameter to its height. © 7:03
O 3:07
C 7:06
C 6:07
Question No.98
Bookmark
Before proceeding with its execution, each process must acquire all the resources it needs is called
as
Circular wait
© Pre-emption
O Hold and wait
© Deadlock
Question No.99 4.00
Bookmark ☐
The linker is C A part of loader
Required to create a load module
·
Always used before programs are executed
same as the loader

Question No.100	4.00
	Bookmark 🖂
Sunil likes chocolates very much,?	
○ isn't it?	
O does he	
○ doesn't he?	
○ is it?	

