Sr No.	PhD CSE
1	Choose the missing term out of the given options:
	aababbabaab
Alt1	aaabb
Alt2	babab
Alt3	bbaab
Alt4	bbbaa
•	
2	Choose word from the given options which bears the same relationship to the third word, as the first two bears:
	Hour : Second :: Tertiary : ?
Alt1	Intermediary
Alt2	Primary
Alt3	Ordinary
Alt4	Secondary
3	Select the lettered pair that has the same relationship as the original pair of words:
	Stickler :Insist
Alt1	Laggard: Outlast
Alt2	Braggart: Boast
Alt3	Haggler: Concede
Alt4	Trickster: Risk
4	Select the lettered pair that has the same relationship as the original pair of words:
	Necromancy : Ghosts
	Romance: Stories
	Magie: Amulets
	Alchemy: Gold
Alt4	Sorcery: Spirits
5	Find out the number that has the same relationship as the numbers of the given pair:
	MAD: JXA: RUN: ?
	ORK
	OSQ
Alt3	
Alt4	UXQ
	Contributed from the contributed by the falls of the contributed by th
	Spot the defective segment from the following:
	Keep the miscreants
	at your arm's length
Alt3	
Alt4	they will pull the wool over your eyes
	The terresists held the teurists for reason
	The terrorists held the tourists for ransom. as hostages
	as nostages hostages
Alt3	hostage

Alt4	captives
•	
8	If I wealthy, I would have got many friends.
Alt1	had been
Alt2	were
Alt3	was
Alt4	am
9	Choose the option closest in meaning to the given word:
	NEOLOGISM
Alt1	inoculation
Alt2	coinage
	consistency
	mirth
10	Choose the antonymous option you consider the best:
	SUAVE
Alt1	crestfallen
Alt2	polite
	rough
	cherished
11	In a certain code, REFRIGERATOR is coded as ROTAREGIRFER. Which wordwould be coded as NOITINUMMA?
Alt1	ANMOMIUTNI
	AMNTOMUIIN
	AMMUNITION
Alt4	NMMUNITIOA
12	Traffic : Road in the same way as
	Aeroplane : Aerodrome
	Blood : Veins
	Roots : Tree
	Car : Garage
13	The following information is given: One of M.Gopi, his wife, their son and Mr.Gopi's mother is an architect and
	another is a doctor.
	(i) If the doctor is younger than the architect, then the doctor and the architect are not blood relatives.
	(ii) If the doctor is a woman, then the doctor and the architect are blood relatives.
	(iii) If the architect is a man, then the doctor is a man.
	Whose occupation is known by this information?
	whose occupation is known by this information:
Alt1	Mr. Gopi is the doctor
	Mr. Gopi's son is the architect
Alt3	Mrs. Gopi is the doctor
Alt4	Mr. Gopi's mother is the doctor
7.11.4	The state of the doctor

14 Gopal was ranked 5th from the top and 16th from the bottom in a test. How many students were there in his class. Alt 1 19 Alt 2 21 Alt 3 22 Alt 4 20 15 Median of 10o, 5o, -2o, -1o, -5o, 15o is Alt 1 20 Alt 3 20 Alt 4 30 16 Which of the following is "OXYMORON"? Alt 1 found Missing Alt 2 TIT-TAT Alt 3 GOTO Alt 4 Misunderstood 17 There are 5 persons in a class. Each one is shaking hand with the other. Find the total number of hand shakes? Alt 1 5 Alt 2 10 Alt 3 20 Alt 4 Misunderstood 17 There are 5 persons in a class. Each one is shaking hand with the other. Find the total number of hand shakes? Alt 1 6 Alt 2 10 Alt 3 20 Alt 4 60 18 Of the 26 Capital letters, how many are symmetrical along with vertical and horizontal axes. Alt 1 4 Alt 2 3 Alt 3 6 Alt 4 5 19 There are 30 boys and 60 girls in a village. There are 70 men and 40 women in that village. What is the percentage of boys in that village? Alt 1 0.1 Alt 2 0.25 Alt 3 0.2 Alt 4 0.15 20 There are N students in a class and only 8 of them are girls. If 11 boys added to the class, how many students in the class are boys? Alt 1 N-3 Alt 2 N-3 Alt 3 N-19		
Alt 2 21 Alt 2 22 Alt 4 20 15 Median of 100, 50, -20, -10, -50, 150 is Alt 1 20 Alt 2 10 Alt 2 10 Alt 3 20 Alt 4 30 16 Which of the following is 'OXYMORON'? Alt 1 Found Missing Alt 2 TIT-TAT Alt 3 GOTO Alt 4 Misunderstood 17 There are 5 persons in a class. Each one is shaking hand with the other. Find the total number of hand shakes? Alt 1 Support 1 There are 5 persons in a class. Each one is shaking hand with the other. Find the total number of hand shakes? 18 Of the 26 Capital letters, how many are symmetrical along with vertical and horizontal axes. Alt 4 Support 1 There are 30 boys and 60 girls in a village . There are 70 men and 40 women in that village. What is the percentage of boys in that village? Alt 1 O.1 Alt 2 O.1 Alt 1 O.1 Alt 2 O.2 Alt 1 O.1 Alt 2 O.3 Alt 3 O.2 Alt 4 O.15 Alt 3 O.2 Alt 4 O.15 Alt 1 O.1 Alt 2 O.3 Alt 3 O.2 Alt 4 O.15 Alt 1 O.1 Alt 2 O.3 Alt 3 O.2 Alt 4 O.15 Alt 1 O.1 Alt 1 O.1 Alt 2 O.3 Alt 3 O.2 Alt 4 O.15 Alt 1 O.1 Alt 1 O.1 Alt 2 O.3 Alt 3 O.2 Alt 4 O.15 Alt 1 O.1 Alt 2 O.2 Alt 2 O.2 Alt 2 O.2 Alt 3 O.2 Alt 4 O.2 Alt 3 O.2 Alt 4 O.2 Alt 3 O.2 Alt 4 O.2 Alt 1 O.3 Alt 3 O.2 Alt 4 O.2 Alt 1 O.3 Alt 1 O.3 Alt 2 O.2 Alt 3 O.2 Alt 4 O.2 Alt 3 O.2 Alt 4 O.2 Alt 4 O.2 Alt 5 O.2 Alt 5 O.2 Alt 6 O.2 Alt 6 O.2 Alt 6 O.2 Alt 7 O.2 Alt 7 O.2	14	
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Alt1 20 Section 20	Alt2	21
Alt1 20 Section 20	Alt3	22
15 Median of 10o, 5o, -2o, -1o, -5o, 15o is Alt1 20 Alt3 20 Alt4 30 16 Which of the following is 'OXYMORON'? Alt1 Found Missing Alt2 TITT-TAT Alt3 GOTO Alt4 Misunderstood 17 There are 5 persons in a class. Each one is shaking hand with the other. Find the total number of hand shakes? Alt1 5 Alt2 10 Alt3 20 Alt4 60 18 Of the 26 Capital letters, how many are symmetrical along with vertical and horizontal axes. Alt1 4 Alt2 3 Alt3 6 Alt4 60 19 There are 30 boys and 60 girls in a village . There are 70 men and 40 women in that village. What is the percentage of boys in that village? Alt1 0.1 Alt2 0.25 Alt3 0.2 Alt4 0.15 Alt4 0.15 There are N students in a class and only 8 of them are girls. If 11 boys added to the class,how many students in the class are boys? Alt1 N-3 Alt2 N-3 Alt2 N-3		
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the class are boys? Alt1 N+3 Alt2 N-3	Alt4	0.15
the class are boys? Alt1 N+3 Alt2 N-3		
Alt1 N+3 Alt2 N-3	20	
Alt2 N-3		
Alt3 N-19		
	Alt3	N-19

Alt4	19
21	In Propositional logic negation of p à q is equivalent to
Alt1	p^ ~q
Alt2	pvq
Alt3	~p v q
Alt4	p ^ q
22	An abelian group is a group in which
Alt1	Commutative Property is also satisfied
Alt2	Distributive Property is also satisfied
Alt3	Closed with respect to addition and multiplication
	It is always a ring
23	A relation R is set to be an equivalence relation if
Alt1	It is Reflexive
Alt2	It is Symmetric
Alt3	It is Transitive
Alt4	It is Reflexive, Symmetric and Transitive
<u> </u>	·
24	A function is a bijection if
	It is one-one
Alt2	It is on- to
	It is one-one and on-to
Alt4	It is one-one and in-to
25	The worst case time complexity of Insertion Sort algorithm is
Alt1	
	O(n x n)
	O(log n)
	O (n log n)
7110-1	
26	The following numbers are inserted into an empty binary search tree in the given order: 10, 1, 3, 5, 15, 12, 16. What is the height of the binary search tree (the height is the maximum distance of a leaf node from the root)
Alt1	2
Alt2	
Alt3	
Alt4	
27	A tree that uses parts of the key to navigate the search is
Alt1	B+ tree
Alt2	
Alt3	AVL tree

	What is the minimum and maximum height of a binary search tree having 20 elements? Assume that the le the root node is 1.
Λl+1	5, 19
	5, 20
	4, 19
Alt4	4, 20
29	How many linked lists are used to represent a graph with n nodes and m edges, when using an edge list
	representation,
Alt1	m
Alt2	n
Alt3	m + n
	m*n
30	Which of the following software testing techniques use McCabe's Cyclometic complexity?
	Statement Coverage
	Condition Coverage
	Boundary value analysis
	Basis Path Testing
AILT	Dasis Facilife
31	The process model which considers Risk Analysis is
Alt1	Waterfall model
Alt2	Spiral Model
Alt3	Rapid Application Development Model
	Prototyping Model
วา	The input portion in the Data Flow Diagram that transform input data from physical to logical form is called
52	The input portion in the Buta from Biagram that transform input auta from priyological to logical form is called
32 Alt1	Central transform
Alt1	Central transform Efferent branch
Alt1	Central transform Efferent branch
Alt1 Alt2 Alt3	Central transform Efferent branch Afferent branch
Alt1 Alt2 Alt3 Alt4	Central transform Efferent branch Afferent branch None of the above
Alt1 Alt2 Alt3 Alt4	Central transform Efferent branch Afferent branch None of the above If every requirement stated in the Software Requirement Specification (SRS) has
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Alt1 Alt2 Alt3 Alt4 33 Alt1 Alt2	Central transform Efferent branch Afferent branch None of the above If every requirement stated in the Software Requirement Specification (SRS) has only one interpretation, SRS is said to be Correct Unambiguous
Alt1 Alt2 Alt3 Alt4 33 Alt1 Alt1 Alt2 Alt3	Central transform Efferent branch Afferent branch None of the above If every requirement stated in the Software Requirement Specification (SRS) has only one interpretation, SRS is said to be Correct Unambiguous Consistent
Alt1 Alt2 Alt3 Alt4 33 Alt1 Alt1 Alt2 Alt3	Central transform Efferent branch Afferent branch None of the above If every requirement stated in the Software Requirement Specification (SRS) has only one interpretation, SRS is said to be Correct Unambiguous
Alt1 Alt2 Alt3 Alt4 33 Alt1 Alt2 Alt3 Alt4	Central transform Efferent branch Afferent branch None of the above If every requirement stated in the Software Requirement Specification (SRS) has only one interpretation, SRS is said to be Correct Unambiguous Consistent
Alt1 Alt2 Alt3 Alt4 33 Alt1 Alt2 Alt3 Alt4 34	Central transform Efferent branch Afferent branch None of the above If every requirement stated in the Software Requirement Specification (SRS) has only one interpretation, SRS is said to be Correct Unambiguous Consistent Verifiable
Alt1 Alt2 Alt3 Alt4 33 Alt1 Alt2 Alt3 Alt4 Alt4 34 Alt1	Central transform Efferent branch Afferent branch None of the above If every requirement stated in the Software Requirement Specification (SRS) has only one interpretation, SRS is said to be Correct Unambiguous Consistent Verifiable Coupling and cohesion can be represented using a Cause-effect graph
Alt1 Alt2 Alt3 Alt4 33 Alt1 Alt2 Alt3 Alt4 Alt1 Alt2 Alt3 Alt4 Alt1 Alt2	Central transform Efferent branch Afferent branch None of the above If every requirement stated in the Software Requirement Specification (SRS) has only one interpretation, SRS is said to be Correct Unambiguous Consistent Verifiable Coupling and cohesion can be represented using a

	Alpha and Beta Testing are forms of
	Acceptance testing
	Integration testing
Alt3	System Testing
Alt4	Unit testing
26	NAMbiah ia matana sina matakin2
	Which is not a size metric?
Alt1	
	Function count
	Program length
Alt4	Cyclomatic complexity
37	The idea of cache memory is based
	on the property of locality of reference
	on the heuristic 90-10 rule
	on the fact that references generally tend to cluster
Alt4	all of the above
38	A microprogram sequencer
	generates the address of next micro instruction to be executed.
-	generates the control signals to execute a microinstruction.
	sequentially averages all microinstructions in the control memory.
	enables the efficient handling of a micro program subroutine
39	Which of the following protocols is used in Ethernet LANS for media access control?
Alt1	Sliding Window Protocol
	Stop and Wait Protocol
	Go Back N Protocol
Alt4	CSMA/CD Protocol
_	
40	In the TCP/IP model, flow control and error control are carried out by
Alt1	The Application Layer
Alt2	Transport Layer
۲+۱۸	
AILS	Network Layer
	Network Layer Data Link Layer
Alt4	Data Link Layer
Alt4 41	Data Link Layer The length of MAC address in Ethernet is
Alt4 41 Alt1	Data Link Layer The length of MAC address in Ethernet is 32 bits
Alt4 41 Alt1 Alt2	Data Link Layer The length of MAC address in Ethernet is 32 bits 48 bits
Alt4 41 Alt1 Alt2	Data Link Layer The length of MAC address in Ethernet is 32 bits
Alt4 41 Alt1 Alt2 Alt3	Data Link Layer The length of MAC address in Ethernet is 32 bits 48 bits
Alt4 41 Alt1 Alt2 Alt3 Alt4	Data Link Layer The length of MAC address in Ethernet is 32 bits 48 bits 64 bits 128 bits
Alt4 41 Alt1 Alt2 Alt3 Alt4	Data Link Layer The length of MAC address in Ethernet is 32 bits 48 bits 64 bits 128 bits Which of the following protocols is used for routing in Ad-hoc networks
Alt4 41 Alt1 Alt2 Alt3 Alt4 42 Alt1	Data Link Layer The length of MAC address in Ethernet is 32 bits 48 bits 64 bits 128 bits Which of the following protocols is used for routing in Ad-hoc networks AODV
Alt4 41 Alt1 Alt2 Alt3 Alt4 42 Alt1 Alt2	Data Link Layer The length of MAC address in Ethernet is 32 bits 48 bits 64 bits 128 bits Which of the following protocols is used for routing in Ad-hoc networks AODV Link State Routing
Alt4 41 Alt1 Alt2 Alt3 Alt4 42 Alt1 Alt2 Alt1 Alt2 Alt3	Data Link Layer The length of MAC address in Ethernet is 32 bits 48 bits 64 bits 128 bits Which of the following protocols is used for routing in Ad-hoc networks AODV

	The protocol which is used for multicast communication
Alt1	ARP
Alt2	RARP
Alt3	IGMP
Alt4	ICMP
44	Fork is
	the dispatching of a task
	the creation of a new job
	the creation of a new process
	increasing the priority of a task
Alt4	increasing the priority of a task
45	In apparating systems, the schoolyling algorithm in which stargation assure more frequently is
-	In operating systems, the scheduling algorithm in which starvation occurs more frequently is
	First Come First Serve
	Round robin
_	Shortest Job First
Alt4	Earliest Deadline First
	External fragmentation is a problem occurring in the following memory management technique
Alt1	Cache Memory Management
Alt2	Virtual Memory Management
Alt3	Paged Memory Management
Alt4	Segmented Memory Management
47	SHA-I has a message digest of
	160 bits
Alt2	512 bits
	628 bits
_	820 bits
7	
18	The number of rounds performed by the DES algorithm is
Alt1	
Alt2	
Alt3	
Alt4	32
	Euclidean Algorithm is used to find
	The L.C.M of two numbers
	The G.C.D of two numbers
	The remainder of division
Alt4	The factors of a number
50	Euler's Phi function is used in
Alt1	DES Algorithm
Alt2	AES Algorithm
	RSA Algorithm

Alt4	DSA Algorithm
51	The sequence of events that happen during a typical fetch operation is
Alt1	PC->MAR->Memory->MDR->IR
Alt2	PC->Memory->MDR->IR
Alt3	PC->Memory->IR
Alt4	PC->MAR->Memory->IR
52	, , , , , , , , , , , , , , , , , , , ,
	instruction involving 3 operands and one operator needs a maximum of
Alt1	3m bits
Alt2	3m+n bits
Alt3	m+n bits
Alt4	5m+0
53	A computer uses ternary system instead of the traditional binary system. An 'n' bit string in the binary
	system will occupy
Alt1	3+n ternary digits
Alt2	2n/3 ternary digits
Alt3	N(log23) ternary digits
Alt4	N(log32) ternary digits
54	Which of the following rules regarding the addition of 2 given numbers is correct, if negative numbers are
	represented in 2's complement form?
Alt1	Add sign bit and discard carry, if any
Alt2	Add sign bit and add carry, if any
Alt3	Don't add sign bit and discard carry bit, if nay
Alt4	Don't add sign bit and add carry, if any
55	The working of a staircase switch is a typical example of the logical operation
Alt1	OR
Alt2	NOR
Alt3	Exclusive- OR
Alt4	Exclusive – NOR
56	The exponent of a floating point number is represented in excess-N code so that
Alt1	The dynamic range is larger
Alt2	The precision is high
Alt3	The smallest number is represented by all zeros
Alt4	Overflow is avoided
57	With a clock frequency of 3MHz, the execution time for instruction, "STA addr" of 8085will be
Alt1	4333ns
Alt2	3975ns
Alt3	3115ns
Alt4	3960ns

58	Which of the following lists the interrupts in decreasing priority?
Alt1	TRAP, RST 5.5, RST 6.5, RST 7.5, INTR
Alt2	INTR, TRAP, RST 7.5, RST 6.5, RST 5.5
Alt3	TRAP, RST 7.5, RST 6.5, RST 5.5, INTR
Alt4	RST 7.5, RST 6.5, RST 5.5, TRAP, INTR
	<u> </u>
59	Consider the following four instructions
	i. PUSH PSW
	ii. CALL ADDR
	iii. XTHL
	iv. RST n
	The stack pointer will be affected by the instruction(s)
Alt1	
Alt2	
Alt3	
Alt4	
Alta	1,2 and 3 only
60	MVI B, 00
	MVI A, 1cH
	DCR B
	DAA
	STA TEMP HLT
	The content of the TEMP location after the execution of the above program is
Alt1	1Ch
Alt1	
-	
Alt3	
Alt4	12h
64	The death of a constant bloom two with a contact (by the bound of
	The depth of a complete binary tree with n nodes is (log is to the base two)
Alt1	
Alt2	
Alt3	
Alt4	Log(n) + 1
62	1
	98, 11, 56, into a table indexed from 0to 6. What will be the location of key 11?
Alt1	
Alt2	
Alt3	5
Alt4	6
63	The Ackermann's function
Alt1	Has quadratic time complexity
	Has exponential time complexity

Alt3	Can't be solved iteratively
Alt4	Has algorithmic time complexity
64	15. Stack A has the entries a,b,c(with a on top). Stack B is empty. An entry popped out of stack A can be printed
	immediately or pushed to stack B. An entry popped out of stack B can be printed. In this arrangement, which of
	the following permutations of a,b,c is not possible?
Alt1	bac
Alt2	b c a
Alt3	c a b
Alt4	аbс
65	The postfix equivalent of the prefix * + a b – c d is
Alt1	ab + cd - *
Alt2	ab cd + - *
Alt3	ab + cd * -
Alt4	ab + - cd *
66	A hash table has space for 100 records. What is the probability of collision before the table is 10% full
	, , , , , , , , , , , , , , , , , , ,
Alt1	0.45
Alt2	0.5
Alt3	0.3
Alt4	0.34(approximately)
7	oo (approximate)
67	Unrestricted use of goto is harmful, because it
Alt1	Makes debugging difficult
Alt2	Increases the running time of the program
Alt3	Increases memory requirement of program
Alt4	Results in the compiler generating longer machine code
7	nestate in the complete generating langer measure code
68	The height of a binary tree is the maximum number of edges in any root to leaf path. The maximum number
00	of nodes in a binary tree of height h is
Δl+1	2h -1
	2h-1 -1
	2h+1 -1
Alt4	
AIL4	21111
69	Working set(t,k) at an instant of time ,t, is the set of
	K future references that the operating system will make
	Future references that the operating system will make in the next k time units
	K references with high frequency
AIT4	Pages that have been referenced in the last k time units
70	Dilleture houling algorithms in an apparation product the control of the control
70	Dijkstra's banking algorithm in an operating system solves the problem of
Alt1	Deadlock avoidance
Alt2	Deadlock recovery
Alt3	Mutual exclusion

Alt4	Context switching
71	An operating system contains 3 user processes each requiring 2 units of resource R. The minimum number of
	units of R such that no deadlock will ever occur is
Alt1	3
Alt2	4
Alt3	5
Alt4	6
72	Dirty bit is used to show the
Alt1	Page with corrupted data
Alt2	Wrong page in the memory
Alt3	Page that is modified after being loaded into cache memory
Alt4	Page that is less frequently accessed
73	In paged memory, the page hit ratio is 0.35. The time required to access a page in secondary memory is
	equal to 100ns. The time required to access a page in primary memory is 10ns. The average time required to
	access a page is
Alt1	3ns
Alt2	68ns
Alt3	68.5ns
Alt4	78.5ns
74	Consider a system having 'm' resources of the same type. These resources are shared by 3 processes A,B,C
	which have peak time demands of 3,4,6 respectively. The minimum value of 'm' that ensures that deadlock will
	never occur is
Alt1	11
Alt2	12
Alt3	13
Alt4	14
75	If there are 32 segments, each of size 1kbytes, then the logical address should have
Alt1	13 bits
Alt2	14 bits
Alt3	15 bits
Alt4	16 bits
76	Thrashing
Alt1	Reduces page I/O
Alt2	Decreases the degree of multiprogramming
Alt3	Implies excessive page I/O
Alt4	Improves the system performance
	k
77	In airline reservation system, the entities are date, flight number, place of departure, destination, type of
	plane and seat availability. The primary key is
	Flight number
	Flight number + place of departure
۸۱۱۷	ringht hamber i place of departure

Alt3	Flight number + date
	Flight number + destination
7.11.0.1	- Inglic Hallise described
78	For a database relation R(a,b,c,d) where the domains of a,b,c, and d include only atomic values, only the following functional dependencies and those that can be inferred from then hold. a->c b->d The relation is in
Λ I+1	First normal form but not in the second normal form
Alt1	
Alt2	Second normal form but not in the third normal form
Alt3	Third normal form
Alt4	Fifth normal form
79	The employee salary should not be greater than Rs.2000. This is
Alt1	Integrity constraint
Alt2	Referential constraint
Alt3	Over-defined constraint
Alt4	Feasible constraint
80	<u> </u>
Alt1	FSM
Alt2	DPDM
Alt3	NDPDM
Alt4	Linearly bonded memory machine
81	If there exist a TM which when applied to any problem in the class, terminates if the correct answer is yes, and, may or may not terminate otherwise is said to be
Alt1	Stable
Alt2	Unsolvable
Alt3	Partially solvable
Alt4	Unstable
82	time of the previous problem is logically same as that of sequentially executing
Alt1	3 statements
Alt2	2 statements
Alt3	4 statements
Alt4	5 statements
83	Word length in microprocessors is indicated by
	Number of bits that can be processed by CPU at any one time
	32 bit word length that the CPU is capable to process at any one time
	8 bits of word length that the CPU is capable to process at any one time
	64 bit word length that the CPU is capable to process at any one time
84	Bus bandwidth is indicated by

Alt1	Data bits times frequency
Alt2	Frequency of multiplexed path
Alt3	Frequency of data transfer
Alt4	Base band frequency
L	
85	Microns in CPU represents
	Number of transistors
	Distance between transistors
	Number of circuits
	Technology of circuits
7.110.1	realmology of all calls
86	L1 cache memory is located in
	Motherboard
	Processor
	System Memory
Alt4	On-board memory
	Tanaar at it is a second of the second of th
_	MIPS is the term to represent
	Number of instructions in memory
Alt2	' '
—	Execution speed of processor
Alt4	Number of memory in processor
88	Fault-tolerance in computing refers to
Alt1	Product of the system from hardware
Alt2	Continued operation even in failures
Alt3	Software to correct errors
Alt4	System to correct errors
89	XML supports
Alt1	Middleware for business system
Alt2	common data format for business
Alt3	Proprietary data format
	Back-end system
	·
90	In an RDBMS when data are normalized
	Attributes in the table depend on primary key
Alt2	Attributes in the table depend on secondary key
Alt3	Attributes in the table depend on primary key and secondary key
Alt4	Attributes in the table are available in the reduced form
AIL4	Action Costs in the table are available in the reduced form
Ω1	SQL is
-	The combination of MOM and DOM
-	
	The combination of DML and DDL
-	The combination of UML and CDL
Alt4	The combination of UML and SDL

92	OLAP data are supported by
Alt1	Arrays
Alt2	Pointers
Alt3	Stack
Alt4	Tree
•	
93	Baseband transmission is
Alt1	Digital and multiple signals at a time
Alt2	Digital and one signal at a time
Alt3	Analog and one signal at a time
Alt4	Analog and multiple signals at a time
	Microwave towers cannot be spaced more than
	120 miles apart
	90 miles apart
	60 miles apart
Alt4	30 miles apart
05	The speed of OFC ranges
	560 kbps to 500 mbps
	256 kbps to 560 mbps
	500 kbps to 25 Tbps
Alt4	1 mbps to 15 mbps
96	Parity bits are used
	At the sender end to add error
	At the receiver end if bits are lost
Alt3	Both at sender and receiver end
Alt4	Both at sender and Receiver for errors
97	Forward error correction
Alt1	Requires receiver to correct data stream
Alt2	Requires sender to correct data stream
Alt3	Both sender and receiver to correct data stream
Alt4	none of the above
_	
98	Primary rate ISDN supports
	13 B channels and 4 D channels
Alt2	23 B channels and 1 D channels
Alt3	35 B channels and 1 channels
Alt4	45 B channels and 4 D channels
99	DSL uses
Alt1	Dedicated point-to-point lines
Alt2	Satellite link channels
Alt3	OFC cable based channels
Alt4	Existing telephone lines

100	Bluetooth's maximum transmission speed is
Alt1	420 kbps
Alt2	520 kbps
Alt3	620 kbps
Alt4	720 kbps