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 : ?
	Intermediary
	Primary
	Ordinary
Alt4	Secondary
3	Select the lettered pair that has the same relationship as the original pair of words:  Stickler: Insist
Λ I+1	Laggard: Outlast
	Braggart: Boast
	Haggler: Concede
	Trickster: Risk
7.101	THORSE THISK
4	Select the lettered pair that has the same relationship as the original pair of words:
	Necromancy : Ghosts
Alt1	Romance: Stories
Alt2	Magie: Amulets
Alt3	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
	Contable defeative assument from the fallenting.
	Spot the defective segment from the following:
	Keep the miscreants at your arm's length
Alt3	
	they will pull the wool over your eyes
All4	they will pail the wool over your eyes
7	The terrorists held the tourists for ransom.
	as hostages
	hostages
	hostage
1	,

1	
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
Alt3	consistency
Alt4	mirth
10	Choose the antonymous option you consider the best:
	SUAVE
Alt1	crestfallen
Alt2	polite
Alt3	rough
	cherished
11	In a certain code, REFRIGERATOR is coded as ROTAREGIRFER. Which wordwould be coded as NOITINUMMA?
Alt1	ANMOMIUTNI
Alt2	AMNTOMUIIN
Alt3	AMMUNITION
Alt4	NMMUNITIOA
12	Traffic: Road in the same way as
Alt1	Aeroplane : Aerodrome
Alt2	Blood : Veins
Alt3	Roots : Tree
Alt4	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?
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

1.4	Gopal was ranked 5th from the top and 16th from the bottom in a test. How many students were there in his
14	
	class
Alt1	
Alt2	
Alt3	
Alt4	20
15	Median of 10o, 5o, -2o, -1o, -5o, 15o is
Alt1	-20
Alt2	-10
Alt3	20
Alt4	30
16	Which of the following is 'OXYMORON'?
	Found Missing
	TIT-TAT
	GOTO
	Misunderstood
7.110.1	THIS CONTROL OF THE PARTY OF TH
17	There are 5 persons in a class. Each one is shaking hand with the other. Find the total number of hand shakes?
	-
Alt1	
Alt2	
Alt3	
Alt4	60
10	Of the 2C Conited letters have been supported along with wortised and having stall are
	Of the 26 Capital letters, how many are symmetrical along with vertical and horizontal axes.
Alt1	
Alt2	
Alt3	
Alt4	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?
Alt1	
Alt2	0.25
Alt3	0.2
Alt4	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?
Alt1	N+3
Alt2	
	N-19

Alt4 19	
21 In Propositional logic negation of p à	q is equivalent to
Alt1 p^~q	
Alt2 p v q	
Alt3 ~p v q	
Alt4 p ^ q	
I	
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 multipli	cation
Alt4 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	
The letter tenesiately equinities and manufacture	
24 A function is a bijection if	
Alt1 It is one-one	
Alt2 It is on- to	
Alt3 It is one-one and on-to	
Alt4 It is one-one and in-to	
Alter it is one one and in to	
25 The worst case time complexity of Inser	tion. Sort algorithm is
Alt1 O(n)	tion 301t algorithm is
Alt2 O(n)	
Alt3 O(log n)	
Alt4 O (n log n)	
AICH O (II log II)	
26 The following numbers are inserted into	o an empty binary search tree in the given order: 10, 1, 3, 5, 15, 12, 16.
	tree (the height is the maximum distance of a leaf node from the root)?
What is the neight of the binary search	tree (the neight is the maximum distance of a leaf hode from the root):
Alt1 2	
Alt1 2	
Alt3 4	
Alt4 6	
Alt4 0	
27 A troo that uses parts of the key to result	gate the coarch is
27 A tree that uses parts of the key to navi	sale the search is
Alt1 B+ tree	
Alt2 Binary search tree	
Alta AVL tree	
Alt4 Trie	

28 V	What is the minimum and maximum height of a binary search tree having 20 elements? Assume that the level of
	he root node is 1.
Alt1 5	
Alt2 5	
Alt3	
Alt4 4	
Alt	,, 20
20	How many linked lists are used to represent a graph with n nodes and m edges, when using an edge list
	epresentation,
Alt1 n	
Alt2 n	
Alt3 n	
Alt4 n	
AIL4 II	
201	Which of the following software testing techniques use McCabe's Cyclometic complexity?
	tatement Coverage
	Condition Coverage
	Soundary value analysis
	Basis Path Testing
AIT4 B	asis Path Testing
24 7	The arrange we adol subjets equal days Diels Arrahasia
	The process model which considers Risk Analysis is
	Vaterfall model
	piral Model
	tapid Application Development Model
Alt4 P	Prototyping Model
22	
32 1	The input portion in the Data Flow Diagram that transform input data from physical to logical form is called
2114	
Alt1	Central transform
Alt2	Efferent branch
Alt3	Afferent branch
Alt4	None of the above
22	
	f every requirement stated in the Software Requirement Specification (SRS) has
C	only one interpretation, SRS is said to be
	Correct
	Jnambiguous
	Consistent
Alt4 V	/erifiable
ماء	
	Coupling and cohesion can be represented using a
	Cause-effect graph
	Dependence matrix
	tructure chart
Alt4 S	RS

35	Alpha and Beta Testing are forms of
Alt1	Acceptance testing
Alt2	Integration testing
Alt3	System Testing
	Unit testing
36	Which is not a size metric?
Alt1	LOC
Alt2	Function count
Alt3	Program length
	Cyclomatic complexity
37	The idea of cache memory is based
	on the property of locality of reference
<b>—</b>	on the heuristic 90-10 rule
	on the fact that references generally tend to cluster
	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
71104	endates the emotern national program subjective
39	Which of the following protocols is used in Ethernet LANS for media access control?
	Sliding Window Protocol
	Stop and Wait Protocol
	Go Back N Protocol
	CSMA/CD Protocol
Alt	estimy est indicati
40	In the TCP/IP model, flow control and error control are carried out by
	The Application Layer
	Transport Layer
	Network Layer
	Data Link Layer
All4	Data Link Layer
// 1	The length of MAC address in Ethernet is
	32 bits
-	48 bits
	64 bits
	128 bits
Alt4	128 DICS
42	Which of the following protocols is used for routing in Ad has naturally
	Which of the following protocols is used for routing in Ad-hoc networks  AODV
	Link State Routing
Alt3	Multicast Routing
	Distance Vector Routing

43	The protocol which is used for multicast communication
Alt1	ARP
Alt2	RARP
Alt3	IGMP
Alt4	ICMP
	Fork is
	the dispatching of a task
	the creation of a new job
	the creation of a new process
Alt4	increasing the priority of a task
45	
	In operating systems, the scheduling algorithm in which starvation occurs more frequently is
	First Come First Serve
	Round robin  Short-on-line First
	Shortest Job First
Alt4	Earliest Deadline First
16	External fragmentation is a problem occurring in the following memory management technique
	Cache Memory Management
	Virtual Memory Management
	Paged Memory Management Segmented Memory Management
AII4	Segmented Memory Management
17	SHA-I has a message digest of
	160 bits
	512 bits
	628 bits
	820 bits
AII4	820 DILS
/18	The number of rounds performed by the DES algorithm is
Alt1	
Alt2	
Alt3	
Alt4	
A11.4	
49	Euclidean Algorithm is used to find
	The L.C.M of two numbers
	The G.C.D of two numbers
	The remainder of division
	The factors of a number
50	Euler's Phi function is used in
Alt1	DES Algorithm
Alt2	AES Algorithm
Alt3	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	
	system will occupy
Alt1	3+n ternary digits
Alt2	2n/3 ternary digits
Alt3	N(log23) ternary digits
Alt4	N(log32) ternary digits
54	, ,
	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
	The weathing of a stringer souther is a trusted expandent the logical apprentice.
55 Alt1	
Alt1	NOR NOR
Alt3	Exclusive- OR
Alt4	
AIL4	Exclusive – NON
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	
Alt4	Overflow is avoided
7.00-7	
57	With a clock frequency of 3MHz, the execution time for instruction, "STA addr" of 8085will be
Alt1	4333ns
Alt2	
Alt3	
Alt4	

58	Which of the following lists the interrupts in decreasing priority?
	TRAP, RST 5.5, RST 6.5, RST 7.5, INTR
	INTR, TRAP, RST 7.5, RST 6.5, RST 5.5
	TRAP, RST 7.5, RST 6.5, RST 5.5, INTR
	RST 7.5, RST 6.5, RST 5.5, TRAP, INTR
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	1,2 and 3 only
	Tanua 00
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
	The content of the Telvi location after the execution of the above program is
Alt1	1Ch
Alt2	
Alt3	
Alt4	12h
61	The depth of a complete binary tree with n nodes is (log is to the base two)
Alt1	
Alt2	Log(n)
Alt3	Log(n-1) +1
Alt4	Log(n) + 1
	<del>-</del>
62	
Alt4	D
	The Administration of Courts of
62	
63 Alt1	
61 Alt1 Alt2 Alt3	The depth of a complete binary tree with n nodes is (log is to the base two)  Log(n+1) -1  Log(n)  Log(n-1) +1  Log(n) + 1  A hash function f defined as f(key)=Key mod 7, with linear probing, is used to insert the keys 37, 38, 72, 48, 98, 11, 56, into a table indexed from 0to 6. What will be the location of key 11?  3  4  5  6

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 pi	rinted
immediately or pushed to stack B. An entry popped out of stack B can be printed. In this arrangement, wh	
the following permutations of a,b,c is not possible?	
Alt1 b a c	
Alt2 b c a	
Alt3 ic a b	
Alt4 a b c	
7.10.110.20	
65 The postfix equivalent of the prefix * + a b – c d is	
Alt1 ab + cd - *	
Alt2 ab cd + - *	
Alt3 ab + cd * -	
Alt4 ab + - cd *	
Alt4 ab+-tu	
A hash table has space for 100 records. What is the probability of collision before the table is 10% full	
A flash table has space for 100 records. What is the probability of collision before the table is 10% full	
Alt1 0.45	
Alt2 0.5	
Alt2 0.5 Alt3 0.3	
Alt4 0.34(approximately)	
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	
The height of a binary tree is the maximum number of edges in any root to leaf path. The maximum number of edges in any root to leaf path. The maximum number of edges in any root to leaf path.	ımber
of nodes in a binary tree of height h is	
Alt1 2h -1	
Alt2 2h-1-1	
Alt3 2h+1 -1	
Alt4 2h+1	
CO Warding and the American and a Court of the court of	
69 Working set(t,k) at an instant of time ,t, is the set of	
Alt1 K future references that the operating system will make	
Alt2 Future references that the operating system will make in the next k time units	
Alt3 K references with high frequency	
Alt4 Pages that have been referenced in the last k time units	
	<del></del> ,
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
AIL4	
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
7.110.1	7.515115
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
AICT	
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
AIL4	10 0103
76	Thrashing
Alt1	Reduces page I/O
Alt2	Decreases the degree of multiprogramming
Alt3	Implies excessive page I/O
Alt4	Improves the system performance
AILH	improves the system performance
	In airline reservation system, the entities are date, flight number, place of departure, destination, type of
77	
77	
	plane and seat availability. The primary key is  Flight number

Alt3	Flight number + date
	Flight number + destination
7 (10.1)	The number of destination
	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
Alt1	First normal form but not in the second normal form
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
Alt	T CUSING CONSTRUIT
80	CSG can be recognized by a
Alt1	
	DPDM
	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	If the instructions are executed in parallel, whenever the required operands are available, then the execution
	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
Alt1	Number of bits that can be processed by CPU at any one time
Alt2	32 bit word length that the CPU is capable to process at any one time
Alt3	8 bits of word length that the CPU is capable to process at any one time
Alt4	64 bit word length that the CPU is capable to process at any one time
84	Bus bandwidth is indicated by

	Data bits times frequency
	Frequency of multiplexed path
	Frequency of data transfer
Alt4	Base band frequency
85	Microns in CPU represents
Alt1	Number of transistors
Alt2	Distance between transistors
Alt3	Number of circuits
Alt4	Technology of circuits
86	L1 cache memory is located in
	Motherboard
-	Processor
	System Memory
	On-board memory
AIL4	On Board memory
Ω7	MIPS is the term to represent
	Number of instructions in memory
Alt1	Number of processors in system
	Execution speed of processor
Alt4	Number of memory in processor
00	Fault talances in acquaiting referents
_	Fault-tolerance in computing refers to
	Product of the system from hardware
_	Continued operation even in failures
	Software to correct errors
Alt4	System to correct errors
	XML supports
	Middleware for business system
-	common data format for business
	Proprietary data format
Alt4	Back-end system
-	In an RDBMS when data are normalized
Alt1	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
91	SQL is
Alt1	The combination of MOM and DOM
Alt2	The combination of DML and DDL
Alt3	The combination of UML and DDL
Alt4	The combination of UML and SDL

92	OLAP data are supported by
	Arrays
Alt2	Pointers
Alt3	Stack
Alt4	Tree
<u> </u>	
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
94	Microwave towers cannot be spaced more than
Alt1	120 miles apart
Alt2	90 miles apart
Alt3	60 miles apart
Alt4	30 miles apart
95	The speed of OFC ranges
Alt1	560 kbps to 500 mbps
Alt2	256 kbps to 560 mbps
Alt3	500 kbps to 25 Tbps
Alt4	1 mbps to 15 mbps
•	
96	Parity bits are used
Alt1	At the sender end to add error
Alt2	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
Alt1	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



## **PU Ph D Computer Science and Engineering**

198	f <b>100</b> PU_2015_106 ch of the following is done in the physical layer of the ATM network?
	Cell multiplexing and de-multiplexing
	Transmission frame generation/recovery
	Monitoring of the user information field for bit errors and possible corrective actions
	Generic flow control
	F 100 PU_2015_106 is a sentence which is true under all interpretations.
	Tautology
	Logic+
	Contradiction
	Raster
200	F 100 PU_2015_106 first argument of a scanf() function in C language is:-
	Control string
	Escape sequence
	Keyword
	Address of a variable
216	f <b>100</b> PU_2015_106 ch among the following is not a major component of Artificial Intelligence Systems?
	Knowledge
	Looping
	Learning
	Reasoning
210	f <b>100</b> PU_2015_106 Performance of the pure Aloha protocol is:-
	Less than Seven Percent
	Less than Twenty Percent
	Less than Five Percent

	Zero
193	f 100 PU_2015_106 e maximum number of edges in a bipartite graph on 12 vertices is  36  24  48  12
190 Cor	f 100 PU_2015_106 nsider a system with byte-addressable memory, 32 bit logical addresses, 4 kilobyte page size and the table entries of 4 bytes each. The size of the page table in the system in megabytes is
p=2	3 6 4 5
120	f 100 PU_2015_106 e storage class 'static' can be used to:- Restrict the scope of an external identifier Provide privacy to a set of functions Preserve the exit value of variables All of these
212	f 100 PU_2015_106 D implies:- Mechanism for ensuring reliability Independent read and writes Disks operated in parallel All of these
162	of 100 PU_2015_106 at is the function of the preamble in an Ethernet network?  Error checking  Clock synchronization

nd remote

	Finite automata
	Push down automata
	Non deterministic automata
181 Wha	of 100 PU_2015_106 at is the protocol used by a Mail Client to connect to a Mail server?  SIP IMAP4 FTP
	H.323
121	of 100 PU_2015_106 nping lemma is generally used for proving:- A given grammar is regular
	A given grammar is regular  A given grammar is not regular
	Whether two given regular expressions are equivalent or not  All of these
130 If d	of 100 PU_2015_106 is the level of the leaf nodes, the total number of nodes in a completely binary tree is given by:- $2^{d-1} + 1$ $2^{d+1} - 1$ $2^{d-1} - 1$ $2^{d+1} + 1$
150	of 100 PU_2015_106 Fan-out of nodes can be increased by using a technique called  Postfix compression Prefix compression Node compression Infix compression
209	of 100 PU_2015_106 ault simulation testing technique is:-

	White box testing
	Black box testing
	Mutation test
119 Wh	of 100 PU_2015_106 at is atomicity?  All transactions must be committed  All transactions must be rolled back  After transaction is committed the change must persist
	All transactions are either committed or rolled back
188 Wh	of 100 8 PU_2015_106 sich of the following logic families is well suited for high speed operations?  CMOS  TTL  ECL  MOS
207 Wh	of 100 'PU_2015_106 ich of the following techniques is a hardware technique used in high performance computer systems exploit certain types of parallelism in instruction processing?  Networking  Multiprocessing  Pipelining  Multitasking
131 The	PU_2015_106 e systems developed to automatically translate text-based addresses to numeric IP addresses is ed:-  SNL  LSN  DNS  WWW
	of 100

201 PU\_2015\_106 Which of the following sorting algorithm is of divide-and-conquer type?

0	Bubble sort Selection sort Quick sort Insertion sort
165	PU_2015_106 en two sine waves A and B, if the frequency of A is twice that of B, the period of B is that where the same as the period of B is that the period of B is that that the period of B is
203 Who	of 100 PU_2015_106 en to stop testing and release the software to customers should be decided on the basis of:- Market conditions Test cost Availability of resources Test metrics
147 Exp	of 100 PU_2015_106 PU_1015_106 PU_2015_106
217 In th	of 100 PU_2015_106 ne context of Agents, if the next state of the environment is NOT determined by only the current state, in the scenario is called as:-  Heuristic Stochastic Deterministic Z-Order

30 of 100

```
122 PU_2015_106
An R-S Latch is a:-
    One clock delay element
Buffer circuit
    Sequential circuit element
    One bit memory element
31 of 100
208 PU_2015_106
Which of the following techniques/data structures are not suitable in terms of reducing page faults?
    Hashing
\Box
    Pointers
    Binary search
All of these
32 of 100
197 PU_2015_106
The output of the following C program is ______.
 void f1 (int a, int b) {
 int c:
 c=a; a=b; b=c;
 void f2 (int *a, int *b) {
 int c;
 c=*a; *a=*b;*b=c;
 int main() {
 int a=4, b=5, c=6;
fl (a, b);
 f2 (&b, &c);
 printf ("%d", c-a-b);
4
```

16 In	3 of 100 60 PU_2015_106 the XMODEM protocol, the sender waits for what character from the receiver before beginning ansmission?
0	WACK
	ACK
	_
19	4 of 100 91 PU_2015_106 ne maximum number of super keys for the relation schema R (E, F, G, H) with E as the key is
9	12
	8
	16
21 To	Stack Array
15	6 of 100 56 PU_2015_106 et G be a finite connected planar graph with at least 3 vertices. Then G has:-
0	
	At least one vertex of degree 5 of less
	At least one vertex of degree 6 of less
123	7 of 100 23 PU_2015_106 a fixed-partition memory strategy, what causes internal fragmentation?
	An inordinate number of thread stacks in one address space
C	
	_
	O

	All of these
196 Wh the	of 100 5 PU_2015_106 ich of the following pairs of protocols can use multiple TCP connections between the same client and server?
	HTTP, FTP
	HTTP, TELNET
	FTP, SMTP
	HTTP, SMTP
	of 100
	5 PU_2015_106 e baud rate is
	Equal to twice the bandwidth of an ideal channel
	Always equal to the bit transfer rate
	Not equal to the signaling rate
	Equal to half of the bandwidth of an ideal channel
192 Giv	of 100 2 PU_2015_106 en two sorted lists of size m and n respectively. The number of comparisons needed in the worst case the merge sort algorithm is:-
	max(m,n)
	min(m,n)
	m+n-1
	mn
177	of 100 'PU_2015_106 ich of the following agrees with the Virtual memory concept?
	The process size can exceed total memory size and can still be executed
	Reduces the performance of the system
	Page conversion is not possible
	All of these
148	of 100 B PU_2015_106 at is the use of a dirty page table?
	To minimize unnecessary redo during recovery
	To minimize unnecessary undo during backup

	To minimize unnecessary redo during backup
	To minimize unnecessary undo during recovery
211	of 100 PU_2015_106 adow copy scheme is used for ensuring:-
	Consistency
	Atomicity & durability
	Concurrency
	Flexibility
215 In a	of 100 5 PU_2015_106 6 multi-stage graph, finding a minimum cost path using the forward approach:-
	The codes of the nodes are calculated forward from the sink
	The codes of the nodes are calculated backward from the source
	The codes of the nodes are calculated forward from the source
	The cost of the nodes are calculated backward from the sink
112	of 100 PU_2015_106 tasks(s) of the lexical analysis phase is (are):-
	To build a uniform symbol table
	To parse the source program into the basic elements or tokens of the language
	To build a literal table and an identifier table
	All of these
105 Ider the	of 100 5 PU_2015_106 ntify the addressing mode where the content of the program counter is added to the address part of instructions in order to get effective address.
	Indexed addressing mode
	Base register addressing mode
	Register indirect addressing mode
	Relative addressing mode
155	of 100 5 PU_2015_106 ard's method in numerical solution of differential equations is based on:- Successive integration

Backward interpolation
Forward interpolation
Converging sequences of successive approximations
PU_2015_106 en transmitting odd-parity coded symbols, the number of bits that are zeroes in each symbol is:- Zero Odd Unknown Even
PU_2015_106 ch of the following is a recent improvement in the machine learning domain?  Wide Learning  Long Learning  Deep Learning  Lattice Learning
PU_2015_106 ys are best data structures:- For insert and delete the elements at any stage For relatively permanent collections of data For frequent modification of elements For the size of the structure and the data in the structure are constantly changing
PU_2015_106 hand paging refers to the  A page is brought into memory only when a location on that page is actually referenced during cution  Pages other than the one demanded by a page fault are brought in  A page is brought into memory prior to execution  All of these

180 PU\_2015\_106 Which two files are used during operation of the DBMS?

0	Data dictionary and transaction log  Data dictionary and query language  Data manipulation language and query language  Query language and utilities
199	PU_2015_106 atabases, locking level is also called as:- Granularity S lock X lock Dead lock
179	PU_2015_106 emaphores Special variable of Primitive Wait(s) is used: To communicate a signal To receive a signal To transmit a signal To block a signal
169	PU_2015_106 ich of the following is true about the IP address?  It was established as a user-friendly interface  It is divided into exactly two classes  It is 32 bits long  It contains a fixed-length host ID
149 Mov	of 100 PU_2015_106 ving process from a main memory to a disk is called:- Spooling Swapping Caching Scheduling of 100
405	DIT 004E 400

185 PU\_2015\_106

	one of the codes for transfer of numbers, the code for the succeeding number differs from that of the umber only in the change of a single digit. The code under consideration is:-
	ASCII
	BCD
	Excess 3 Code
	Gray Code
2′ W	SMTP
20	Medium Scale intelligent Circuits
	Medium System Intelligent Circuits
10 In	10 16
25	Declarative  Context independent
	All of these

229	of 100 PU_2015_106 ch switching statically reserves the required bandwidth in advance?
	Packet Switching
	Hybrid Switching
	Mixed Switching
	Circuit Switching
231 Pag	of 100 PU_2015_106 e fault frequency in an operating system is reduced when the:-
	Size of pages is reduced
	Processes tend to the I/O-bound
	Locality of reference is applicable to the process
	Processes tend to be CPU-bound
259	PU_2015_106 ceptual Graphs consists of:-
	Alpha Nodes
	Logic Nodes
	Relation Nodes
	Beta Nodes
232	of 100 PU_2015_106 OCOMO model stands for:-
	Complete Cost Estimation Model
	Comprehensive Cost Estimation Model
	Constructive Cost Estimation Model
	Common Cost Estimation Model
257	of 100 PU_2015_106 ch of the following is false?
	Backtracking algorithms do not have best case, worst case and average case behaviors
	Greedy Technique algorithms do not have best case, worst case and average case behaviors
	Dynamic Programming algorithms do not have best case, worst case and average case behaviors

☐ beh	Branch and Bound Technique algorithms do not have best case, worst case and average case aviors
230 Exa	of 100 PU_2015_106 mple of processor-pool based on distributed computing system is:-
	Sprite system
	Internet
	Xerox PARC
	Amoeba
224	of 100 PU_2015_106 minimum heap with N nodes, the cost of removing the minimum element in the heap is:-
	O(Log N)
	O(N Log N)
	$O(N^2)$
	O(2 Log N)
251	of 100 PU_2015_106 at is the function of the active monitor on a token-ring LAN?
	Check the frame reservation field
	Remove frames that have circulated the ring
	Check frame priority
	Remove frames whose priority value equals their reservation value
233	of 100 PU_2015_106 ne direct-communication discipline, each process that wants to communicate must name of the communication.
	Explicitly; recipient or sender
	Implicitly; recipient or sender
	Implicitly; recipient and sender
	Explicitly; recipient and sender
239 A LI	of 100 PU_2015_106 EX source program is a specification of a lexical analyzer, consisting of a set of
	Regular expressions
	Sub expressions

	Keywords
	Common tokens
240	PU_2015_106 ich of the following is the disadvantage of cloud-based database systems?  Difficulty in obtaining locks on remote data  Difficult to Access data to another physical machine  Ensuring atomic transaction commit via two-phase commit is not easy  All of these
	PU_2015_106 PU_2015_106 graph is one in which every cycle has unique entry.  System Flow DAG Reducible
228	PU_2015_106 eles in the relational data model are required to be unordered because:-  It makes implementation easier  It makes the database more efficient  The user should not be burdened with having to remember which tuple is next  The relational model is based on set theory and sets are unordered collections of entities
246 Dire	PU_2015_106 ectly minimizing squared-error can lead to an effect called  Under-fitting  Over-fitting  Regularization  Normalization
245	of 100 PU_2015_106 ich of the following statements is / are true?  The goal of regression is to learn a mapping from one real-valued space to another  Linear regression is the simplest form of regression

0	Linear regression is easy to understand, often quite effective, and very efficient to learn and use.  All of these
241 Whi	of 100 PU_2015_106 ich of the following statements is true?
acti	Reinforcement learning, in which an agent (e.g., a robot or controller) seeks to learn the optimal ons to take based the outcomes of past actions
	Supervised Learning, in which the training data is labeled with the correct answer
	Unsupervised learning, in which we are given a collection of unlabeled data, which we wish to lyze and discover patterns within
	All of these
220 Whi	of 100 PU_2015_106 ich of the following component of a database is responsible for ensuring the atomicity and durability perties of transaction?
	Concurrency control
	Recovery manager
	Resource control
	Transaction monitors
238	of 100 PU_2015_106 ich of the following does not belong to activation record for a procedure?  Arg count Old value  Return value
	Formal parameters
250 Let	of 100 PU_2015_106 A be a stochastic matrix of type n × n. Then:-
	Trace of A = 0
	1 is an Eigen value for A
	Trace of A = 1
	Trace of A = n
	of 100 PU_2015_106

Wh	at does the following declaration mean?
int (	(*ptr)[10];
	ptr is an array of 10 integers
	ptr is a pointer to an array of 10 integers
	ptr is array of pointers to 10 integers
	ptr is an pointer to array
276 Wh gra	of 100 5 PU_2015_106 ich one of the following is true for a CPU having a single interrupt request line and a single interrupt nt line?
	Neither vectored interrupt nor multiple interrupting devices are possible
	Vectored interrupts and multiple interrupting devices are both possible
	Vectored interrupts are not possible but multiple interrupting devices are possible
	Vectored interrupt is possible but multiple interrupting devices are not possible
	of 100 PU_2015_106 refers to the ability to have more than one method with the same signature in an
	eritance hierarchy.
	Polymorphism
	Inheritance
	Abstraction
	Multiple Inheritance
286 Wh	of 100 6 PU_2015_106 at does the concept route aggregation mean when one talks about using variable subnet masking?
	Calculating the available host addresses in the AS
	Reclaiming unused space by means of changing the subnet size
	Combining routes to multiple networks into one supernet
	Deleting unusable addresses through the creation of many subnets
267 Wh glob	of 100 7 PU_2015_106 ich of the following system integrate multiple heterogeneous data sources, providing an integrated bal view of the data and providing query facilities?
	Global mediator systems
	Local mediator systems
	Laccase mediator systems

Mediator systems
86 of 100 271 PU_2015_106 Consider the set H of all 3 x 3 matrices of the type:-
$\begin{bmatrix} a & f & e \\ 0 & b & d \\ 0 & 0 & c \end{bmatrix}$
Where a, b, c, d, e and f are real numbers and abc ≠ 0. Under the matrix multiplication operation, the set H is:-
A group
A semigroup but not a monoid
Neither a group nor a semigroup
A monoid but not a group
87 of 100 292 PU_2015_106 Which of the following instructions will not be allowed in Kernel mode?
Set the timer-of-day clock
Disable interrupts
Change memory map
Reset the timer
88 of 100 289 PU_2015_106 Which of the following is true?
P: Every relation is 3NF is also in BCNF Q: A relation R is in 3NF if every non-prime attribute of R is fully functionally dependent on every key of R R: Every relation in BCNF is also in 3NF S: No relation can be in both BCNF and 3NF  S  P
·
C R
89 of 100 270 PU_2015_106 How many 8-bit characters can be transmitted per second over a 9600 baud serial communication link using asynchronous mode of transmission with one start bit, eight data bits, two stop bits, and one parity bit?  600

© ©	1200 800 876
269 Whi	of 100 PU_2015_106 ich of the following grammar rules violate the requirements of an operator grammar? Here P, Q, R are -terminals and r, s, t are terminals.
(ii) F (iii)	$P \rightarrow QR$ $P \rightarrow Q \circ R$ $P \rightarrow \mathcal{E}$ $P \rightarrow Q \circ R$ $P \rightarrow Q \circ R$ (i) only (ii) and (iv) only (ii) and (iii) only (i) and (iii) only
288	of 100 PU_2015_106 ich of the following statements are true?
(2)	The problem of determining whether there exists a cycle in an undirected graph is in P. The problem of determining whether there exists a cycle in an undirected graph is in NP. If a problem Q is NP-Complete, there exists a non-deterministic polynomial time algorithm to solve Q. 2 and 3 only 1 and 2 only 1, 2 and 3 1 and 3 only
280	of 100 PU_2015_106 PU generally handles an interrupt by executing an interrupt service routine:- As soon as an interrupt is raised By checking the interrupt register after finishing the execution of the current instruction By checking the interrupt register at the end of fetch cycle By checking the interrupt register at fixed time intervals
287	of 100 PU_2015_106 ich of the following statements are true about an SQL guery?

P: An SQL query can contain a HAVING clause even if it does not have a GROUP BY clause Q: An SQL query can contain a HAVING clause only if it has GROUP BY clause

R: All attributes used in the GROUP BY clause must appear in the SELECT clause S: Not all attributes used in the GROUP BY clause need to appear in the SELECT clause
Q and R
Q and S
P and R
P and S
94 of 100 277 PU_2015_106 What is the main purpose of the secondary ring in FDDI protocol?  The secondary alternates with the primary in transmission of data  If the primary ring fails, the primary makes a wrap connection with the secondary to heal the ring  If the primary ring fails, the secondary takes over  The secondary is used to send emergency messages when the primary is busy
95 of 100 260 PU_2015_106 Let $\pi_A$ be a problem that belongs to the class NP. Then which one of the following is true?  If $\pi_A$ is NP-hard, then it is NP-complete  There is no polynomial time algorithm for $\pi_A$ If $\pi_A$ can be solved deterministically in polynomial time, then P = NP $\pi_A$ may be undecidable
96 of 100 290 PU_2015_106 For computers based on three-address instruction formats, each address field can be used to specify which of the following:
S1: A memory operand S2: A processor register S3: An implied accumulator register  Only S2 and S3  S1, S2 and S3  Either S2 or S3  Either S1 or S2
97 of 100 293 PU_2015_106 In a client/server environment new technology can be incorporated into the system. This feature is categorized as:-  Scalability

	Interoperability
	Affordability
	Adaptability
278 The cau	PU_2015_106 performance of a scatter-net degrades as the number of piconets is increased. Degradation is sed by probability that two, or more, devices may simultaneously attempt transmission ag  A decreased; a different carrier frequency  A decreased; the same carrier frequency  An increased; the different carrier frequency
275	PU_2015_106 e varying characteristics of transmission lines:-  Enable a fixed block size to be optimum for use on all circuits  Enable a long block size to be optimum on noisy circuits  Enable a short block size to be optimum on non-noisy circuits  Enable a variable block size to be optimum for use on all circuits
279	PU_2015_106 ndezvous refers to  The condition in which, the receiver is not in the network  The condition in which, the sender is able to access the medium on priority basis  The condition in which, both, the sender and receiver are blocked until the message is delivered
	The condition in which, the sender is able to access the medium at any time

Examination: Ph.D. Computer Science and Engineering
Section 1 - Section 1
Question No.1 4.00
Identify the correct order in which a server process must invoke the function calls accept, bind, listen, and recv according to UNIX socket API.  C listen, accept, bind, recv accept, listen, bind, recv bind, accept, listen, recv bind, listen, accept, recv
Question No.2 4.00 Bookmark
Services to support Database management system in any cloud based system should be part of  Software as a Service (SaaS)  Platform as a Service (PaaS)  Enterprise as a Service (EaaS)  Infrastructure as a Service (laaS)
Question No.3
A formal grammar is a for rewriting strings.  Set of rules Set of languages Set of functions Bookmark
Question No.4  Choose the correct meaning of the italicized idiom.  He had great difficulty to save his bacon when he was blackmailed.  ○ Save pork
<ul><li>Threaten somebody</li><li>Escape death</li><li>Put bacon in the refrigerator</li></ul>
Question No.5 4.00
An attribute or set of attributes within one relation that matches the candidate key of some (possibly the same) relation.  Candidate key  Super key  Primary key  Foreign key
Question No.6 4.00
Which of the following permutation can be obtained in the output (in the same order) using a stack assuming that the input is the sequence 1, 2, 3, 4, 5 in that order?  ○ 3, 4, 5, 1, 2  ○ 1, 5, 2, 3, 4  ○ 5, 4, 3, 1, 2  ○ 3, 4, 5, 2, 1

Question No.7	4.00
Choose the correct meaning of the italicized idiom.  Sheela's work seems to be a <i>Penelope's web</i> .  © Declining	Bookmark □
<ul><li>In her best form</li><li>Endless</li><li>Difficult</li></ul>	
Question No.8	4.00 Bookmark □
Internet of Things needs a lot of network connection. What is the proposed "white Space" rastandard called?  C Zigbee  C Weightless  C WiMax  C Bluetooth	adio
Question No.9	4.00
In the transfer of file between server and client, if the transmission rates along the path is 10 20Mbps, 30Mbps, 40Mbps. The throughput is usually  10Mbps 40Mbps 50Mbps 20Mbps	<b>Bookmark</b> □ )Mbps,
Write the regular expression to denote the language L ={ a,b} such that all the string do not substring "ab".  a*b* b*a* (ab)* All of these	4.00 <b>Bookmark</b> contain the
Question No.11	4.00 Bookmark □
An algorithm A is admissible if  It returns more solutions, but not an optimal one  It is guaranteed to return an optimal solution when one exists  It guarantees to return more optimal solutions  It is not guaranteed to return an optimal solution when one exists	
Question No.12	4.00 Bookmark □
What is the worstcase time complexity of Build Heap operation. Build Heap is used to build min) binary heap from a given array. Build Heap is used in Heap Sort as a first step for sort O(Logn)  O(n) O(nLogn)	
O(n^2)	

Question No.13	4.00
	Bookmark □
Which one of the following assertions concerning code inspection and code walkthrough	h is true?
<ul> <li>Code inspection and code walkthrough are synonyms</li> </ul>	
Code walkthrough is usually carried out by an independent test team	
,	
<ul> <li>Code inspection is carried out once the code has been unit tested</li> </ul>	
C Adherence to coding standards is checked during code inspection	
7 Adherence to coding standards to checked during code inspection	
Question No.14	4.00
	Bookmark □
Which is also called Single inference Rule?	
© Resolution	
○ Reform	
© Reference	
Conjunctive normal form	
Question No.15	4.00
	Bookmark □
Which of the following is/are example(s) of stateful application layer protocols?	
(i) HTTP (ii) FTP (iii) TCP (iv) POP3	THE STATE OF THE S
○ (iii) and (iv) only	
○ (ii) and (iii) only	
C (i) and (ii) only	
○ (ii) and (iv) only	
Ougstion No.16	4.00
Question No.16	4.00
	Bookmark 🗆
A processor has 40 distinct instructions and 24 general purpose registers. A 32-bit instr	Bookmark  ruction word
A processor has 40 distinct instructions and 24 general purpose registers. A 32-bit instructions and opcode, two register operands and an immediate operand. The number of bits a	Bookmark  ruction word
A processor has 40 distinct instructions and 24 general purpose registers. A 32-bit instructions and an immediate operand. The number of bits a the immediate operand field is	Bookmark  ruction word
A processor has 40 distinct instructions and 24 general purpose registers. A 32-bit instructions and processor has 40 distinct instructions and 24 general purpose registers. A 32-bit instructions and operand. The number of bits a the immediate operand field is	Bookmark  ruction word
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A processor has 40 distinct instructions and 24 general purpose registers. A 32-bit instructions and opcode, two register operands and an immediate operand. The number of bits at the immediate operand field is  © 32  © 16  © 12  © 8   Question No.17  Identify the underlined part of speech: Sorry, I don't know any foreign languages  © adjective  © pronoun  © adverb  © noun  Question No.18  In a binary max heap containing n numbers, the smallest element can be found in time  © O(1)	Bookmark  ruction word available for  4.00  Bookmark  4.00  Bookmark
A processor has 40 distinct instructions and 24 general purpose registers. A 32-bit instructions and processor has 40 distinct instructions and 24 general purpose registers. A 32-bit instructions and an immediate operand. The number of bits at the immediate operand field is  © 32 © 16 © 12 © 8  Question No.17  Identify the underlined part of speech: Sorry, I don't know any foreign languages © adjective © pronoun © adverb © noun  Question No.18  In a binary max heap containing n numbers, the smallest element can be found in time	Bookmark  ruction word available for  4.00  Bookmark  4.00  Bookmark
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A processor has 40 distinct instructions and 24 general purpose registers. A 32-bit instructions and processor has an opcode, two register operands and an immediate operand. The number of bits at the immediate operand field is  32  16  12  8  Question No.17  Identify the underlined part of speech: Sorry, I don't know any foreign languages  adjective  pronoun  adverb  noun  Question No.18  In a binary max heap containing n numbers, the smallest element can be found in time  O(1)  O(logn)	Bookmark  ruction word available for  4.00  Bookmark  4.00  Bookmark

Question No.19	4.00
Find out the missing term:	Bookmark □
1, 2, 3, 6, 11, 20, 37, 68, ?  125  105  126  124	
Question No.20	4.00 Bookmark □
Ramesh had a cold and couldn't go to the party, so I bought him a cake to make up for his_  o depression  disappointment  disgust disillusion	
Question No.21	4.00 Bookmark □
How many stacks are needed to implement a queue? Consider the situation where no other structure like arrays, linked list is available to you.  3  1  2  4	
Question No.22	4.00
Consider an undirected random graph of eight vertices. The probability that there is an edg a pair of vertices is 1/2. What is the expected number of unordered cycles of length three?  7 0 1 8	Bookmark □
Consider an undirected random graph of eight vertices. The probability that there is an edg a pair of vertices is 1/2. What is the expected number of unordered cycles of length three?  7 0 0 1	Bookmark  e between
Consider an undirected random graph of eight vertices. The probability that there is an edg a pair of vertices is 1/2. What is the expected number of unordered cycles of length three?  7  0  1  8  Question No.23  Choose the missing term: 3F,6G,11I,18L,?	Bookmark □ e between
Consider an undirected random graph of eight vertices. The probability that there is an edg a pair of vertices is 1/2. What is the expected number of unordered cycles of length three?  O 7 O 0 O 1 O 8  Question No.23  Choose the missing term: 3F,6G,11I,18L,? O 27P O 28Q	Bookmark  e between
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Consider an undirected random graph of eight vertices. The probability that there is an edg a pair of vertices is 1/2. What is the expected number of unordered cycles of length three?  7 0 1 8  Question No.23  Choose the missing term: 3F,6G,11I,18L,? 27P 28Q 26N	Bookmark  e between

Question No.25	4.00
	Bookmark □
In the worst case, the number of comparisons needed to search a singly linked list of length	n for a
given element is	
○ log 2n	
O n	
O n-1	
○ n/2	
Question No.26	4.00
	Bookmark □
What is the output of a lexical analyzer?	
○ Intermediate Code	
○ A parse Tree	
○ A list of tokens	
Machine code	
Question No.27	4.00
Question No.27	Bookmark
Which of these keywords is not a part of exception handling?	DOOKITIAIR [_
© try	
© finally	
© throws	
© thrown	
C tilowii	
Question No.28	4.00
	Bookmark □
If files are organized so that the ordering of data records is the same as or close to the order	ering of
data entries in some index. Then that index is called	
© Unclustered	
© Clustered	
O Dense	
C Sparse	
Question No.29	4.00
	Bookmark □
Input of Lex is?	
○ ASCII data	
○ statements	
○ Set of regular expression	
O Numeric data	
	100
Question No.30	4.00 Bookmark
Which of the below is an invalid identifier with main method?	
○ Final	
© Public	
© Static	
© Private	

Question No.31	4.00 Bookmark □
In which addressing mode the operand is given explicitly in the instruction?  Immediate mode  Index mode	
C Absolute mode	
O Indirect mode	
Question No.32	4.00
	Bookmark □
Match the following:	
List - I	
(P) Prim's algorithm for minimum spanning tree	
(Q) Floyd-Warshall algorithm for all pairs shortest paths	
(R) Mergesort	
(S) Hamiltonian circuit	
List - II	
(i) Backtracking	
(ii) Greedy method	
(iii) Dynamic programming (iv) Divide and conquer	
© P-iii, Q-ii, R-iv, S-i	
© P-i, Q-ii, R-iv, S-iii © P-ii, Q-i, R-iii, S-iv	
© P-ii, Q-iii, R-iv, S-i	

Question No.33	4.00
	Bookmark □
Which of the following term is best defined by the statement: "When one object invokes are	nother
independent object, a message is passed between the two objects."?  © Control coupling	
© Stamp coupling	
<ul><li>External coupling</li><li>Data coupling</li></ul>	
O Data coupling	
Question No.34	4.00
	Bookmark □
Which one of the following task is not done by data link layer?	
© error control	
o channel coding	
© framing	
○ flow control	
Question No.35	4.00
	Bookmark □
Statements: Some bats are snakes, No snake is dangerous	
Conclusion:	
Some dangerous animals are snakes     Some bats are not dangerous.	
© If either I or II follows	
○ If only conclusion II follows	
o If neither I nor II follows	
o If only conclusion I follows	
S Well, College of the College of th	
Question No.36	4.00
Record on the given information, answer the following question	Bookmark 🗆
Based on the given information, answer the following question.  1. Six friends P.Q.R.S.T and U are members of a club and play different games of Foot	Bookmark 🗆
<ol> <li>Six friends P,Q,R,S,T and U are memebers of a club and play different games of Footl Tennis, Basketball, Badminton and Volleyball</li> </ol>	Bookmark 🗆
<ol> <li>Six friends P,Q,R,S,T and U are memebers of a club and play different games of Foot Tennis, Basketball, Badminton and Volleyball</li> <li>T who is taller than P and S plays Tennis.</li> </ol>	Bookmark 🗆
<ol> <li>Six friends P,Q,R,S,T and U are memebers of a club and play different games of Footl Tennis, Basketball, Badminton and Volleyball</li> <li>T who is taller than P and S plays Tennis.</li> <li>The tallest among them plays Basketball.</li> </ol>	Bookmark 🗆
<ol> <li>Six friends P,Q,R,S,T and U are memebers of a club and play different games of Footl Tennis, Basketball, Badminton and Volleyball</li> <li>T who is taller than P and S plays Tennis.</li> <li>The tallest among them plays Basketball.</li> <li>The Shortest among them plays volleyball.</li> </ol>	Bookmark 🗆
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<ol> <li>Six friends P,Q,R,S,T and U are memebers of a club and play different games of Footi Tennis, Basketball, Badminton and Volleyball</li> <li>T who is taller than P and S plays Tennis.</li> <li>The tallest among them plays Basketball.</li> <li>The Shortest among them plays volleyball.</li> <li>Q and S neither play Volleyball nor Basketball.</li> </ol>	Bookmark 🗆
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<ol> <li>Six friends P,Q,R,S,T and U are members of a club and play different games of Foot Tennis, Basketball, Badminton and Volleyball</li> <li>T who is taller than P and S plays Tennis.</li> <li>The tallest among them plays Basketball.</li> <li>The Shortest among them plays volleyball.</li> <li>Q and S neither play Volleyball nor Basketball.</li> <li>R plays Volleyball</li> <li>T is between Q who plays Football and P in order of height</li> <li>What does S Play?         <ul> <li>Cricket</li> <li>Badminton</li> <li>None of the above</li> </ul> </li> <li>Question No.37</li> <li>Which one of the following protocols is NOT used to resolve one form of address to another RARP</li> </ol>	Bookmark  ball, Cricket,  4.00  Bookmark
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MQTT is a protocol.  Machine Things Internet of Things Machine to Machine and Internet of Things Machine to Machine	4.00 Bookmark □
Question No.39	4.00 Bookmark □
(A) (B) (C) (D)	DOCKHICIK
O D O B O C O A	
Question No.40	4.00 Bookmark □
Good restaurants serving pure vegetarian food are very hard to  © go through © come by © take to © get in	DOCKHICIK [_]
Question No.41	4.00
Which one of the following is a transport layer protocol used in internet?  C TCP  C UDP  C Both (a) and (b)  C None of the mentioned	Bookmark □
Question No.42	4.00
Which one of the following is NOT a part of the ACID properties of database transactions?  Consistency Atomicity  Deadlock-freedom Isolation	Bookmark □

Question No.43	4.00
Which of the following options is/are true for K-fold cross-validation? i. Increase in K will result in higher time required to cross validate the result. ii.Higher values of K will result in higher confidence on the cross-validation result as comp lower value of K.	
<ul> <li>iii.lf K=N, then it is called Leave one out cross validation, where N is the number of observed 1,2 and 3</li> <li>1 and 3</li> <li>1 and 2</li> </ul>	ations.
© 2 and 3	
Question No.44	4.00 Bookmark
Which one of the following fields of an IP header is NOT modified by a typical IP router?  C Checksum  Time to Live (TTL)	
© Source address © Length	40
Question No.45  Which of the following provider rely on virtual machine technology to deliver servers?  • laaS	4.00 Bookmark □
o CaaS o AaaS	
o PaaS	
Question No.46  Which of the following is /are modern programming language(s)?  C Kotlin	4.00 Bookmark ☐
<ul><li>○ Julia</li><li>○ Haxe</li><li>○ All of these</li></ul>	
Question No.47	4.00
When is a resolution called as refutation-complete?  • Sentence is satisfiable	
<ul><li>Sentence is unsatisfiable</li><li>Sentence remains the same</li></ul>	
None of the mentioned	
Question No.48	4.00 Bookmark □
Select the option which improves the underlined part of the sentences.  The Prime Minister called on the President.  No improvement	
○ to	
O in	

Question No.49	4.00
Which of the following is a recent development in Machine Learning?	Bookmark □
Sound Learning	
© Deep Learning	
© Wave Learning	
© Meta Learning	
Question No.50	4.00
Assume that for a cortain processor a road request takes 50 pages condo on a cooks mi	Bookmark □
Assume that for a certain processor, a read request takes 50 nanoseconds on a cache mi nanoseconds on a cache hit. Suppose while running a program, it was observed that 80%	
processor's read requests result in a cache hit. The average read access time in nanoseco	
·	
0 1.4	
0 1.3	
0 14	
O 13	
Question No.51	4.00
	Bookmark □
A processor can support a maximum memory of 4 GB, where the memory is word-address	
word consists of two bytes). The size of the address bus of the processor is at least	bits.
0 33	
0 32	
0.31	
O 35	
Question No.52	4.00
	4.00 Bookmark □
Question No.52  Obtain the missing term.	
Obtain the missing term.	
Obtain the missing term. 300, 296, 287, 271, ?, 210	
Obtain the missing term.  300, 296, 287, 271, ? , 210  © 246	
Obtain the missing term.  300, 296, 287, 271, ? , 210  246  250	
Obtain the missing term.  300, 296, 287, 271, ? , 210  246  250  244  None of the above	Bookmark □
Obtain the missing term.  300, 296, 287, 271, ? , 210  246  250  244	Bookmark  4.00
Obtain the missing term.  300, 296, 287, 271, ? , 210  246  250  244  None of the above	Bookmark  4.00  Bookmark
Obtain the missing term.  300, 296, 287, 271, ?, 210	Bookmark  4.00  Bookmark
Obtain the missing term.  300, 296, 287, 271, ? , 210	Bookmark  4.00  Bookmark
Obtain the missing term.  300, 296, 287, 271, ? , 210	Bookmark  4.00  Bookmark
Obtain the missing term.  300, 296, 287, 271, ? , 210	Bookmark  4.00  Bookmark
Obtain the missing term.  300, 296, 287, 271, ? , 210	Bookmark  4.00  Bookmark
Obtain the missing term.  300, 296, 287, 271, ? , 210	Bookmark  4.00  Bookmark
Obtain the missing term.  300, 296, 287, 271, ?, 210  246  250  244  None of the above  Question No.53  An Al technique that allows computers to understand associations and relationships between and events is called:  Heuristic processing Pattern matching Cognitive science Relative symbolism	4.00  Bookmark □ en objects
Obtain the missing term.  300, 296, 287, 271, ? , 210	4.00 Bookmark  en objects
Obtain the missing term.  300, 296, 287, 271, ?, 210  246  250  244  None of the above  Question No.53  An Al technique that allows computers to understand associations and relationships between and events is called:  Heuristic processing Pattern matching Cognitive science Relative symbolism  Question No.54	4.00 Bookmark  en objects
Obtain the missing term.  300, 296, 287, 271, ?, 210	4.00 Bookmark  en objects
Obtain the missing term.  300, 296, 287, 271, ?, 210	4.00 Bookmark  en objects

Question No.55	4.00 Bookmark
A single array A[1MAXSIZE] is used to implement two stacks. The two stacks grow from ends of the array. Variables top1 and top2 (topI< top 2) point to the location of the topmos each of the stacks. If the space is to be used efficiently, the condition for "stack full" is:  © top1= top2 -1	opposite
○ top1 + top2 = MAXSIZE	
C (top1 = MAXSIZE/2) and (top2 = MAXSIZE/2+1)	
C (top1= MAXSIZE/2) or (top2 = MAXSIZE)	
Question No.56	4.00
Assertion: - India's president is appointed on a five-year term	Bookmark
Reason: -PratibhaPatil was appointed as India's first woman president in 2007	
<ul> <li>Both A and R are true and R is the correct explanation of A</li> <li>A is true but R is false</li> </ul>	
O A is false but R is true	
Both A and R are true and R is not the correct explanation of A	
Question No.57	4.00 Bookmark
In orthographic projection, the object is placed with one of its faces to the picture or Inclined Perpendicular	
© Parallel	
Any of the above	
Question No.58  The network layer concerns with	4.00 Bookmark □
<ul><li>bits</li><li>frames</li><li>packets</li><li>none of the mentioned</li></ul>	
Question No.59	4.00
Question No.39	Bookmark
The disadvantage of invoking the detection algorithm for every request is:	
<ul> <li>consumption of memory</li> <li>excessive time consumption for memory allocation</li> </ul>	
considerable overhead in computation time	
C all of the above mentioned	
Question No.60	4.00
Choose the best synonym of the italicized word.	Bookmark 🗖
Each one of us is the subject of <i>derision</i> at some time or the other in our life.	
O irony	
O laughter	
C criticism ridicule	

Question No.61	4.00
To set up the window to capture all Click events, which of the following statement is used ?  © window.captureEvents(Event.CLICK);	
o window.raiseEvents(Event.CLICK);	
<ul><li>window.handleEvents (Event.CLICK);</li></ul>	
window.routeEvents(Event.CLICK);	
Question No.62	4.00
are also known as generic pointers, which refer to variables of any type.	Bookmark
O this pointer	
C void pointer	
o null pointer	
Question No.63	4.00
Which of the following model includes a backward elimination feature selection routine?	Bookmark □
C MCV	
O MARS O MCRS	
C All of the Mentioned	
Question No.64	4.00
The preorder traversal sequence of a binary search tree is 30, 20, 10, 15, 25, 23, 39, 35, 42	Bookmark ☐ 2. Which
one of the following is the post order traversal sequence of the same tree?  © 10, 20, 15, 23, 25, 35, 42, 39, 30	
C 15, 10, 23, 25, 20, 35, 42, 39, 30	
C 15, 10, 25, 23, 20, 42, 35, 39, 30	
C 15, 20, 10, 23, 25, 42, 35, 39, 30	
Question No.65	4.00
An assembler is	Bookmark □
C Data dependent	
Machine dependent     Dragramming language dependent	
<ul><li>Programming language dependent</li><li>Syntax dependent</li></ul>	
Question No.66	4.00
Which of the following strings is not generated by the following grammar? $S \rightarrow SaSbS \epsilon$ .	Bookmark □
O aababb	
C aaabb	
○ aabb ○ abab	

Question No.67 4.00
Bookmark □
The statement that is executed automatically by the system as a side effect of the modification of the database is:
© backup
© recovery
© trigger
C assertion
Question No.68 4.00
Bookmark
The finite automata accept the following language:
C Context Free Language
○ Context Sensitive Language
○ Regular Language
© None of these
Question No.69 4.00 Bookmark □
Consider a non-pipelined processor with a clock rate of 2.5 gigahertz and average cycles per
instruction of four. The same processor is upgraded to a pipelined processor with five stages; but due
to the internal pipeline delay, the clock speed is reduced to 2 gigahertz. Assume that there are no
stalls in the pipeline. The speed up achieved in this pipelined processor is
0 4
0 3
C 4.2
○ 3.2
Question No.70
Bookmark
The minimum number of JK flip-flops required to construct a synchronous counter with the count
sequence (0,0,1,1,2,2,3,3,0,0,) is
0 3
0 2
C 1
C 4
Question No.71 4.00
Bookmark ☐ All of the following accurately describe Hadoop, EXCEPT:
© Real Time
© Distributed Computing
© Open Source
C Java Based
Question No.72
Bookmark
A software requirements specification (SRS) document should avoid discussing which one of the following?
© Design specification
○ Non-functional requirements
○ User interface issues
C Interfaces with third party software

Question No.73	4.00
T	Bookmark
The width of the physical address on a machine is 40 bits. The width of the tag field in a 512 way set associative cache is bits.	KB 8-
0 44	
0 14	
O 34	
O 24	
Question No.74	4.00
is obviously infinite language.	Bookmark
© Factorial	
○ Palindrome	
୍ Equal-Equal	
© Even-Even	
Question No.75	4.00
	Bookmark □
Time quantum is defined in	
shortest job scheduling algorithm     round robin scheduling algorithm	
multilevel queue scheduling algorithm	
o priority scheduling algorithm	
5 phony constanting digonalin	
Question No.76	4.00
	Bookmark □
Which of the following is a recent cyber security issue that affected many systems across the	e globe?
© WannaLaugh © Wannacry	
© Deepcry	
© None of the these	
O Note of the these	
Question No.77	4.00
	Bookmark □
Which is a refutation complete inference procedure for propositional logic?	
○ Clauses	
© Proposition	
O Variables	
<ul> <li>Propositional resolution</li> </ul>	
Question No.78	4.00
	Bookmark
Which of the following function provides unsupervised prediction?	
C cl_forecast	
© cl_precast	
© cl_nowcast	
C cl_predict	

Question No.79	4.00 Bookmark
Which level of RAID refers to disk mirroring with block striping?	BOOKIIIAIK [_
○ RAID Level 3	
C RAID Level 4	
C RAID Level 2	
C RAID Level 1	
Question No.80	4.00
	Bookmark □
What is the peculiarity of red black trees?	
<ul> <li>In red-black trees, the leaf nodes are not relevant and do not contain data.</li> </ul>	
O They are not self balancing	
<ul> <li>In red-black trees, the lost redes are relevant and contain data.</li> </ul>	
O In red-black trees, the leaf nodes are relevant and contain data.	
Question No.81	4.00
In the DL/SQL the neckage enceification contains	Bookmark □
In the PL/SQL, the package specification containsdeclarations.	4/1/4
O Private	MA
o Public	
© Protected	
Question No.82	4.00
	4.00 Bookmark ☐
Given the following statements: S1: A foreign key declaration can always be replaced by an equivalent check assertion in	Bookmark □
Given the following statements: S1: A foreign key declaration can always be replaced by an equivalent check assertion in Given the table R (a, b, c) where a and b together form the primary key, the following is a	Bookmark ☐ n SQL. S2: valid table
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Question No.85	4.00
	Bookmark □
In a Rule based system, procedural domain knowledge is in the form of  © Control rules	
O Production rules	
Rule interpreters	
○ Meta-rules	
Question No.86	4.00
	Bookmark □
Choose the best antonym of the italicized word.	
Ravi and Raghu are really <i>obstinate</i> men.	
© understanding	
© friendly	
C compliant	
C considerate	
Question No.87	4.00
Quosion No.07	Bookmark □
Which of the following cloud concept is related to pooling and sharing of resources?	
○ QoS	
© Virtualization	
© Polymorphism	
<ul> <li>Abstraction</li> </ul>	
Question No.88	4.00 Bookmark
	DOOKIIIAIK [_
Personal consultant knowledge bases contain information in the form of	
Parameters	
O Contexts	
<ul> <li>Production rules</li> </ul>	
<ul> <li>All of the above</li> </ul>	
Question No.89	4.00
	Bookmark
In a code language, 321 means "Hot Black Coffee", 536 means "Very Hot Summer", and summer and Winter". Which digit stands for "Very"?	589 means
© 5	
0 6	
0 9	
03	
0.3	
Question No.90	4.00
	Bookmark □
Choose the correct meaning of the italicized idiom.	
Anil got me into trouble by giving a <i>false colour</i> to my statement.	
Giving a wrong character	
Giving good impression	
Colouring the sentence	
○ Giving a wrong colour box	

Bookmark   Let X be a recursive language and Y be a recursively enumerable but not recursive language. Let I W and Z be two languages such that Y reduces to W, and Z reduces to X (reduction means the standard many-one reduction). Which one of the following statement is TRUE?  © W is not recursively enumerable and Z is not recursive.  © W can be recursively enumerable and Z is recursive.  © W is not recursively enumerable and Z is recursive.  © W is not recursively enumerable and Z is recursive.    Question No.92	Question No.91	4.00
C W can be recursively enumerable and Z is recursive. C W is not recursively enumerable and Z is recursive.  Question No.92  Latkes eight hours for a 600 km journey, if 120 km is done by train and the rest by car. It takes 20 minutes more, if 200 km is done by train and the rest by car. The ratio of the speed of the train to that of the cars is: C 2:3 C 3:4 C 1:2 C 1:4  Question No.93  An accurate and efficient raster line-generating algorithm is C Bresenham's line algorithm C Mid-point algorithm C Parallel line algorithm C DDA algorithm C DDA algorithm C DDA algorithm C DOBA algorithm C DOBA algorithm Study the following information carefully and answer the question below it  The Director of an MBA college has decided that six guest lectures on the topics of Motivation, Decision Making, Quality Circle, Assessment Centre, Leadership and Group Discussion are to be organised on each day from Monday to Sunday. (i) One day there will be no lecture (Saturday is not that day), just before that day Group Discussion will be organised. (ii) Motivation should be organised immediately after Assessment Centre. (iii) Quality Circle should be organised on Wednesday and should not be followed by Group Discussion (iv) Decision Making should be organised on Friday and there should be a gap of two days between Leadership and Group Discussion How many lectures are organised between Motivation and Quality Circle? C Two C Four C Three	and Z be two languages such that Y reduces to W, and Z reduces to X (reduction means many- one reduction). Which one of the following statement is TRUE?  © W is not recursively enumerable and Z is not recursive	age. Let W
C W is not recursively enumerable and Z is recursive.    Question No.92	·	
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○ One		
	O One	

Question No.95	4.00
	Bookmark □
Let the class of language accepted by finite state machine be L1 and the class of languages	5
represented by regular expressions be L2 then:  © L1U L2=*	
C L1=L2	
© L1 < L2	
© L1 >= L2	
O 117-12	
Question No.96	4.00
	Bookmark
When a function is recursively called all the automatic variables are stored in a	
C Linked List	
© Queue	
C Array	
○ Stack	
Question No.97	4.00
	Bookmark
Which one of the following is an application of Queue Data Structure?	
Resource sharing among multiple consumers.	
Asynchronous data transfer between two processes	
C Load Balancing	
○ All of these	
Question No.98	4.00
Question No.36	4.00 Bookmark
Which one of the following in NOT necessarily a property of a Group?	
© Existence of identity	
© Commutative	
© Existence of inverse for every element	
O Associative	
Question No.99	4.00
Question No.39	Bookmark
Based on the information given, answer the below question.	Doorman L
1. A,B,C,D,E and F are travelling in a bus.	
<ol> <li>There are two reporters, two mechanics, one photographer and one writer in the group.</li> <li>Photographer A is married to D who is a reporter.</li> </ol>	
4. The writer is married to B who is of the same profession as that of F.	
5. A,B,C,D are two married couples and no one in this belong to the same profession.	
6. F is the brother of C.	
How is C related to F?	
© Brother	
○ Brother-in-law	
C Sister	
○ Cannot be determined	

Question No.100	4.00
	Bookmark □
Which of the following statements are TRUE about an SQL query?	
P: An SQL query can contain a HAVING clause even if it does not have a GROUP BY clause	se
Q : An SQL query can contain a HAVING clause only if it has a GROUP BY clause	
R: All attributes used in the GROUP BY clause must appear in the SELECT clause	
S: Not all attributes used in the GROUP BY clause need to appear in the SELECT clause	
C Q and S	

P and SQ and R

