Post of Forest Apprentice in Tamil Nadu Forest Subordinate Service (Group-VI Services)

1.	is a column of the table used to point to the primary key of another table.							
	(A)	Candidate key	(B)	Primary key				
	(C)	Natural key	(D)	Foreign key				
	(E)	Answer not known						
2.	Whi	ch is responsible for fetching	g data fr	om disk into main memory?				
	(A)	Buffer manager	(B)	File manager				
	(C)	Transaction manager	(D)	Authorization manager				
	(E)	Answer not known						
3.	null	Each entity must be uniquely identifiable by an attribute which is not null is called ————. (If it is null then the entity no longer remains unique)						
	(A)	Entity integrity						
	(B)	Key constraints						
	(C)	Referential integrity						
	(D)	Null constraints						
	(E)	Answer not known						
4.	for			rver adds one entry in sysusages. Such entries in sysusages are				
	(A)	Segment	(B)	Database fragment				
	(C)	Moving log	(D)	Extended database				
	(E)	Answer not known						

5.		master database keeps - rmation about DBMS as a who	ole. which keeps track of							
	(A)	Application table	(B) Permanent table							
	(C)	Temporary table	(D) System table							
	(E)	Answer not known	-							
6.	cont	file consists of only one file or table, with each entry containing all the required data defined within it.								
	(A)	Flat	(B) Sequential							
	(C)	Indexed	(D) Hash							
	(E)	Answer not known								
7.	betw	may have more that	an one relationship and can also exist							
	(A)	Binary relationship	(B) Nonbinary relationship							
	(C)	Entity relationship	(D) Attribute relationship							
	(E)	Answer not known								
8.	knov		st be expressed in terms of attributes acilitate us to uniquely identify each							
	(A)	Keys	(B) Degrees							
	(C)	Subordinate entities	(D) Relationships							
	(E)	Answer not known								

9. In which operation, it allows us to combine information from a relations?				' two
	(A)	Cartesian product	(B) Set difference	
	(C)	Selection	(D) Projection	
	(E)	Answer not known		
10.		• • •	n entity in A is associated with ciated with atleast one entity in A	
	(A)	one-to-one	© one-to-many	
	(C)	many-to-one	(D) many-to-many	
	(E)	Answer not known		
11.		——— is an identifiable dist	nct object that exists.	
	(A)	Entity	(B) Attributes	
	(C)	Relationship	(D) Cardinalities	
	(E)	Answer not known		
12.		which data model, the data is obase is a collection of such disjo	organized in a tree structure and oint trees?	d the
	(A)	Relational	(B) Network	
	(G)	⊄ Hierarchical	(D) Object relational	
	(E)	Answer not known		
13.	Whi	ch one describes the database d	esign at the programme's level?	
	(A)	Logical subschema	(B) Physical subschema	
	` ,	Logical schema	(D) Physical schema	
	(E)	Answer not known		

14.	has an ability to change the conceptual schema without changing the external schema or application programs.									
	(A)	Logical data dependence	(B) Logical data independence							
	(C)	Physical data dependence	(D) Physical data independence							
	(E)	Answer not known								
15.		——— means same information may be duplicated in several files								
	(A)	Atomicity	(B) Integrity							
	(C)	Data isolation	(D) Data redundancy							
	(E)	Answer not known								
16.	Whi	Which is not an advantage of Network data model?								
	(A)	Lack of structural independence								
	(B)	Conformance to standards								
	(C)	Promotes database integrity								
	(D)	Handles more relationship typ	pes							
	(E)	Answer not known								
17.		ch user interact with the syste ications?	em by invoking one of the permanent							
	(A)	Naive user	(B) Application programmer							
	(C)	Sophisticated user	(D) Specialized user							
	(E)	Answer not known								
18.	The	symbol used to represent multi	valued attributes in ER diagram is							
	(A)	Double lines	(B) Double rectangles							
	` ,	Double ellipses	(D) Dashed ellipses							
	(E)	Answer not known	•							

19.		is an entity set quely identify all its entities.	that contains sufficient attributes to
	(A)	Multivalued attributes	(B) Strong entity set
	(C)	Weak entity set	(D) Composite attributes
	(E)	Answer not known	
20.	In re	elational database, data is org	anized into related
	(A)	Files	(B) Databases
	(G)	Tables	(D) Record
	(E)	Answer not known	
21.	Wha	at is the short cut key to open e	edit menu in MS Excel?
	(A)	Alt + E	(B) Alt + D
	(C)	Alt + C	(D) Alt + B
	(E)	Answer not known	
22.	disp	· · · · · · · · · · · · · · · · · · ·	in interface screen in MS-Windows, access to programs and information.
	(A)	Desktop	(B) Task manager
	(C)	Menus	(D) Command window
	(E)	Answer not known	
23.		erpoint ———— view oling the user to adjust the ord	displays miniatures of each slide, ler of presentation.
	(A)	Notes page	(B) Outline
	(C)	Slide	(P) Slide sorter
	(E)	Answer not known	

	(A)	Ctrl + A	(B) $Ctrl + Z$
	(B)	Ctrl + P	(D) Ctrl + U
	(E)	Answer not known	
25.	The	keyboard shortcut to	execute the macro in Excel is
	(A)	Ctrl + A	(B) Ctrl + B
	(C)	Ctrl + C	(Ctrl + H
	(E)	Answer not known	
26.	Wha	at is the default file ex	tension for Excel work book?
	(A)	XLS	(B) PRN
	(C)	CSV	(D) DBF
	(E)	Answer not known	
27.	Wha	at is the file name exte	ension for MS-Access database?
	(A)	.PPT	(B) .DOC
	` '	.XLS	.mdb
	(E)	Answer not known	
28.		IS-Access ——————————————————————————————————	– is an object that is used to store data in rows
	(A)	Table	(B) Report
	(C)	Query	(D) Form
	(E)	Answer not known	
		J•	

What is the short cut key used to open the Print dialog box in Excel?

24.

29.	What is the keyboard short cut used to open an existing database in MS-Access?						
	(A)	Ctrl + A	(B) Ctrl + C				
	(C)	Ctrl + X	(D) Ctrl + O				
	(E)	Answer not known					
30.			nd column) prefixing the cell reference				
	in E	xcel indicate absolute reference	e.				
	(A)	+	(B) –				
	(C)	^	\$				
	(E)	Answer not known					
31.	A fu	nction inside another function	in Excel is called				
	(A)	Round function	(B) Test function				
	(C)	Sum function	Nested function				
	(E)	Answer not known					
32.	Form	nulas in MS-Excel starts with					
	(A)	%	(R) =				
	(C)	*	(D) ^				
	(E)	Answer not known					
33.		keyboard short cut to move	the cursor to any cell address in the				
	(A)	F1	(B) F2				
	(C)	F 5	(D) F7				
	(E)	Answer not known					

34.		is an organized carticular subject or purpose	ollection of inter-related information about					
	(A)	Record	(B) File					
	(G)/	Database	(D) Field					
	(E)	Answer not known						
35.	A S _l	A Spread Sheet consists of rows and column which intersect to form						
	(A)	Labels	(B) Value					
	(C)	Functions	(D) Cells					
	(E)	Answer not known						
36.	A letter can be easily prepared through readymade formats which a provided in the word processor. These readymade formats are called as							
	(A)	Documents	(B) Wizards					
	(C)	Sheet	(D) Presentation					
	(E)	Answer not known						
37.		word document ———top of each page.	—— option is used to print information at					
	(A)	Footer	(B) Headings					
	(G)	Header	(D) Title					
	(E)	Answer not known						
38.	_	aintbrush application ——us on screen.	———— tool is used to draw circles of any					
	(A)	Ellipse	(B) Line					
	(C)	Rectangle	(D) File					
	(E)	Answer not known						

39.	In paint application, ————————————————————————————————————							
	(A) Brushes option in tools to	ab (E) Edit colors option in colors tab						
	(C) Select option in Image ta	b (D) Fill option in shapes tab						
	(E) Answer not known							
40.	The — tag provides from other works within a doc	a facility to enclose large block quotations ument.						
	(A) <quote></quote>	(B) <block></block>						
	(SY <blockquote></blockquote>	(D) <bq></bq>						
	(E) Answer not known							
41.	An efficient supervisor shou day-to-day problems of the wor	ld be ————— in dealing with the						
	(A) Impartial	(B) Biased						
	(C) Strict to his subordinates	(D) None of the above						
	(E) Answer not known							
42.	One who does too much work i	s called						
	(A) A rate buster	(B) A chiseller						
	(C) A squealer	(D) None of these						
	(E) Answer not known							

45.	Ma	tch th	ie tollo	wing :				
		List	I				List II	
	(a)	Behavioural approach Scientific management System approach Classical theory			roach	1.	Interaction between organisation and environment	
	(b)				ement	2.	Formulation of principles of organisation	
	(c)					3.	Work done at the lowest level in the organisation	
	(d)					4.	People in the organisation	
		(a)	(b)	(c)	(d)			
	(A)	3	4	2	1			
	(B)	4	3	1	2			
	(C)	2	4	3	1			
	(D)	4	2	1	3			
	(E)	An	swer n	ot kno	wn			
44.	Audio compression can be used for							
	(A)						(B) Speech or Music	
	(C)	Pic	ture ar	nd Colo	ors		(D) Video and Voice	
	(E)							
45.					ment all in a web	_	rograms and other binary objects to	
	(A)	<ba< td=""><td>ase></td><td></td><td></td><td></td><td>(B) <meta/></td></ba<>	ase>				(B) <meta/>	
		<ob< td=""><td>ject></td><td></td><td></td><td></td><td>(D) <binary></binary></td></ob<>	ject>				(D) <binary></binary>	
	(E)		swer n	ot knov	wn			

- 46. A frequently used method for determining training needs involves
 - (A) In-depth interviews of randomly selected employees
 - (B) Group-discussions with employee groups
 - (C) Individual skill assessment by supervisor
 - (D) Observation analyses conducted by the training experts
 - (E) Answer not known
- 47. What does 'Hierarchy of Authority' means
 - 1. The lower levels have to pursue the goals laid down by higher levels
 - 2. The upper levels of hierarchy set the goals to be pursued
 - 3. The upper levels can not take disciplinary actions against subordinates
 - 4. The lowest level have freedom to carryout the operations
 - (A) 1 and 2
 - (B) 2 and 3
 - (C) 3 and 4
 - (D) 1 and 4
 - (E) Answer not known
- 48. The most widely used model of the process of communication has evolved from the work of
 - (A) Barnard
 - (B) Simon
 - (C) Norbert Weiner
 - (D) Shannon and Weaver
 - (E) Answer not known

- 49. Which of the following statements about the behaviour of organizations as system is incorrect?
 - (A) organisations, as systems, seek equilibrium internally
 - (B) organisations, systems. equilibrium as seek with their environments
 - organisations as systems do not change once adopting to the needs of the environment
 - The equilibrium sought by the organisation is a dynamic (D) equilibrium achieved by a constant process of adoption to environment
 - Answer not known (E)
- The Greatman theory of leadership led to the rise of 50.
 - the behavioural theory of leadership
 - (B) the trait theory of leadership
 - the situational theory of leadership (C)
 - none of the above (D)
 - Answer not known (E)
- One who do little work is called 51.
 - (A) A rate buster

(P) A chiseller

- (C)
- (E) Answer not known
- (D) None of the above A squealer

52. Behavioural approach focused on

- (A) Interpersonal relations in organisations
- (B) Managerial processes in organisation
- (C) Decision making in organisation
- (R) Actual behaviour of persons and group in organisation
- (E) Answer not known

53. Match:

List I

- (a) A store clerk tells the top executive when to buy a commodity
- (b) A youth rushing to save life and property of a house or fire commands neighbours to collect water
- (c) A newly elected secretary advises members about their duties
- (d) A leader attempts to bend his followers to his will in most kind of work
- (b) (d) (a) (c) (A) 1 3 2 4 2 3 (B) 4 1 **(C)** 3 4 2 1 (D) 2 4 1
- (E) Answer not known

List II

- 1. Leadership by personality
- 2. Leadership by position
- 3. Leadership by function
- 4. Leadership by situation

54. Assertion (A): Today managers with leadership qualities and skills are preferred to be the managers with expertise alone.

Reason (R) : The major organizational chase now emphasize managing people and processes.

Both (A) and (R) are true and (R) is the correct explanation of (A)

- (B) Both (A) and (R) are true but (R) is not the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true
- (E) Answer not known
- 55. Assertion (A): The term leader and manager are interchangeable.

Reason (R) : Leadership is a sub-class of management.

- (A) (A) and (R) are true and (R) explains (A)
- (B) (A) and (R) are true but (R) is not the correct explanation of (A)
- (C) (A) is true but (R) is false
- (A) is false but (R) is true
- (E) Answer not known
- 56. 'Co-ordination' is an organisation means:
 - 1. Complete control of the activities of the employees
 - 2. To secure harmony among different units of the organisation
 - 3. Removal of conflict and overlapping in the organization
 - (A) 1 and 2

(B) 1 and 3

(**6)** 2 and 3

(D) 1, 2 and 3

(E) Answer not known

57.	The size of a float data type in C is								
	(A) 1 byte	(B) 2 bytes							
	(G) 4 bytes	(D) 8 bytes							
	(E) Answer not known								
58.	is a four-part n	numeric address indicating a unique							
	(A) Internet protocol address	(B) Word address							
	(C) Byte address	(D) Web protocol address							
	(E) Answer not known								
59.	Consider the following pairs :								
	I. $802.11g - 2003$								
	II. 802.11n – 2009								
	III. 802.11b – 1999								
	IV. 802.11a – 1997								
	Which of the pair given above is/a	are correct?							
	(A) I and II	(P) I, II and III							
	(C) I, III and IV	(D) II and III							
	(E) Answer not known								
60.	Find the number of triangles th octagon?	at can be formed by the vertices of an							
	(A) 48	(B) 21							
	(C) 56	(D) 51							
	(E) Answer not known								

	(A) 720		(B)	570	
	(C) 420		(D)	600	
	(E) Answer	not known			
62.	For any two se	ets A and B,			
	A - B = A if a	nd only if			
	$(A) A \cap B = 0$	Þ	(B)	A = B	
	(C) $A \subseteq B$		(D)	$B \subseteq A$	
	(E) Answer r	not known			
63.	Which of the fo	ollowing are equivale	nce r	elations	?
	I. Equality of	f numbers on a set of	f real	numbei	° S
	II. Similarity	of triangles on the se	et of	triangle	5
	III. Relation o	f being parallel on a s	set of	f lines in	a plane
	(A) I only		(B)	II only	
	(C) III only		(B)	1 , II, III	
	(E) Answer r	not known			
64.	A relation R of set ϕ .	n a set A is called a			relation, if R is the null
	(A) Universa	1	(B)	Inverse	
	(C) Void		(D)	Identity	•
	(E) Answer r	ot known			

61. How many words can be formed using the letters of "FLOWER"?

65. If I_n is the identity matrix of order 'n', then its rank is

(A) = n

(B) $\leq n$

(C) < n

(D) = 1

- (E) Answer not known
- 66. If $A \cup B = A \cap B$ then

(A) A = B

(B) $A = \phi$

(C) $B = \phi$

(D) $A \subseteq B$

- (E) Answer not known
- 67. A computer company must hire 25 programmers to handle system programming job and 40 programmers for application programming job. Of those hired, 10 will be expected to perform both the jobs. How many programmers must be hired?

(A) 65

(B) 55

(C) 75

(D) 50

- (E) Answer not known
- 68. Which of the following sets are equal?

$$A = \{x : x^2 - 7x + 12 = 0\},\$$

$$B = \{x : x \in N, x < 7\},\$$

$$C = \{3, 4\}$$

$$D = \{4, 3\}$$

(A) A, C

(B) A, D

 (\mathbf{C}) A, C, D

- (D) A, B
- (E) Answer not known

69. Write the following in symbolic form.

Let J: Jerry takes calculus

K : Ken takes sociology and

L: Larry takes English

If either Jerry takes calculus or Ken takes sociology, then Larry will take English.

(A) $(J \wedge K) \rightarrow L$

(B) $L \rightarrow (J \land K)$

 $(SV(J \vee K) \rightarrow L)$

- (D) $L \to (J \vee K)$
- (E) Answer not known
- - (A) Symmetric

(B) Skew-Symmetric

(C) Hermitian

- (D) Skew-Hermitian
- (E) Answer not known
- 71. A statement A is said to tautologically imply a statement B iff _____ is a tautology.
 - $(A) A \to B$

(B) $A \rightleftharpoons B$

(C) $\neg A \rightarrow \neg B$

- (D) $\neg A \rightleftharpoons \neg B$
- (E) Answer not known
- 72. $P \rightleftharpoons Q \Leftrightarrow$
 - (A) $(P \rightarrow Q) \lor (Q \rightarrow P)$
- $(\mathbf{P}) (P \to Q) \land (Q \to P)$
- (C) $(P \wedge Q) \wedge (\neg P \wedge \neg Q)$
- (D) $(P \lor Q) \land (\neg P \lor \neg Q)$
- (E) Answer not known

73. Let p: It is below freezing and

Let q: It is snowing

Write the compound proposition for the following in symbolic form: "It is not snowing if it is below freezing".

- (A) $p \rightarrow q$
- (B) $q \rightarrow p$
- (6) $p \rightarrow \sim q$
- (D) $q \rightarrow \sim p$
- (E) Answer not known

74. The value of the definite integral $\int_{0}^{1} 1 + \exp(-x^{2}) dx$ is

- (A) -1
- (B) 2
- (C) $1 + e^{-1}$
- (B) None of these
- (E) Answer not known

75. Any equation contains *n*-arbitrary constants, then the order of differential equation derived from it is

- (A) n
- (B) n-1
- (C) 2
- (D) n+1
- (E) Answer not known

- If p and q are non-zero constants and the roots of the equation $x^2 + px + q = 0$ are u and v, then the roots of $qx^2 + px + 1 = 0$ are
 - (A) u and $\frac{1}{v}$

(B) $\frac{1}{v}$ and v

(6) $\frac{1}{n}$ and $\frac{1}{n}$

- (D) None of these
- (E) Answer not known
- 77. The general solution of the equation $\frac{dy}{dx} = -\frac{x}{y}$ is
 - (A) $x^{2} + y^{2} = a^{2}$ (C) x = -y

(B) $x^2 - y^2 = a^2$

- (D) x + y = a
- Answer not known
- 78. If m denotes the order and a the degree of a given differential equation respectively, then
 - (A) m = n

(B) m < n

(C) m > n

- None of the above
- Answer not known (E)
- 79. For Abelian group, the additional postulate is
 - (A) Closure property
- (B) Associativity

(6) Commutativity

- (D) None of the above
- Answer not known

80.	Posit	Positive member less than 2^{-127} is called					
	(A)	positive underflow	(B)	positive overflow			
	(C)	positive infinite	(D)	positive zero			
	(E)	Answer not known					
81.		ch type of operating system ram that can run several differ		ature includes a very powerful operating systems at a time?			
	(A)	Real-Time	(P)	Virtual machine			
	(C)	Time sharing	(D)	Virtual storage			
	(E)	Answer not known					
82.		connects multiple inpof the inputs is selected to be pa		to a single output. At any time, d to the output.			
	(A)	Encoder	(B)	Decoder			
	(C)	Multiplexer	(D)	Demultiplexer			
	(E)	Answer not known					
83.		each of the 2 ⁿ p		ble combinations of input signals atput signals are included			
	(A)	Logical gate	(B)	Boolean equation			
	(C)	Graphical symbol		Truth table			
	(E)	Answer not known	•				
84.			_	significands such that digits may			
	flow	off the right end of the significa	and.				
	(A)	Significand underflow	(B)	Significand overflow			
	(C)	Significand alignment	(D)	Significand zero			
	(E)	Answer not known					

85.	Neg	Negative numbers less than $-(2-2^{-23})\times 2^{128}$ is called				
	(1)	Negative overflow	(B) Negative underflow			
	(C)	Zero	(D) Infinite			
	(E)	Answer not known				
86.	fran	describes each framme number. This table is used b	ne of real memory and is indexed by by the replacement algorithm.			
	(A)	Page table	(B) Disk block descriptor			
	(6)	Page frame data table	(D) Frame table			
	(E)	Answer not known				
87.		n ————, a page is writtens been selected for replacemen	en out to secondary memory only when			
	(A)	Demand cleaning	(B) Precleaning			
	(C)	Paging	(D) Kernal memory allocator			
	(E)	Answer not known				
88.	——circu	algorithm treats the page frames allocated to a process as a circular buffer, and pages are removed in round-robin style.				
	(A)	Optimal	(B) LRU			
	(G)	FIFO	(D) Clock			
	(E)	Answer not known	•			
89.	mult	allows the programs	mer to view memory as consisting of			
	(A)	Segmentation	(B) Paging			
	(C)	Framing	(D) Mounting			
	(E)	Answer not known				

90. The portion of a process that is actually in ———— mentime is defined to be the resident set of the process.			-	
	(A)	Virtual memory	(B)	Main memory
	(C)	Cache memory	(D)	Associative memory
	(E)	Answer not known		
91.		ch time is more desirable for a sed between the submission of		ividual user to minimize the time and obtaining the result?
	(A)	Bandwidth	(B)	Throughput
	(C)	Turnaround	(D)	Speed
	(E)	Answer not known		
92.		anslator which reads an ent uage and converts it into mach	-	program written in a high level anguage code is
	(A)	An Assembler	(B)	An Interpreter
	(G)	A compiler	(D)	Code Converter
	(E)	Answer not known		
93.	A fro	ont-end processor is used in —		—— operating system.
	(A)	Embedded	(B)	Multi processing
	(C)	Time sharing	(D)	Distributed
	(E)	Answer not known	, ,	
94.	Whic	ch of the following is not an ad	vanta	age of multiprogramming?
	(A)	Increased throughput		
	(B)	Shorter response time		
	(0)	Decreased operating-system of	overh	lead
	(D)	Ability to assign priorities to		
	(E)	Answer not known	•	
	` ,	25		COMPUTER APPLICATIONS

95.	acce			—— which is a program that and interprets them for the rest of
		User interface	(B)	Scheduler
	(C)	Input/Output queue	` '	Request/Response queue
	(E)	Answer not known	(- /	
96.		the equivalent decimal num $(A \cdot BC3)_{16} = ()_{10}$	iber o	of the given hexadecimal number
	(A)	$(3994 \cdot 7351074)_{10}$	(B)	$(3984 \cdot 7251073)_{10}$
		$(3993 \cdot 7352064)_{10}$	(D)	$(3983 \cdot 725163)_{10}$
		Answer not known	, ,	
97.	In K	Carnaugh map, the presence of	8 adj	acent 1's are named as
	(A)	Pairs	(B)	Quads
	(C)	Octets	(D)	Squares
	(E)	Answer not known		
98.	Whi	ch gate is known as Universal	gate	
	(A)	NOT gate	(B)	AND gate
	(G)	NAND gate	(D)	XOR gate
	(E)	Answer not known		
99.		circuit is central		ost digital circuits that perform
	(A)	Multiplexer	(B)	Demultiplexer
		Full adder	(D)	Full subtractor
	(E)	Answer not known		

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COMPUTER APPLICATIONS

	(A)	DVDs and Digital TV	(E) Video CDS
	(C)	Meta Data	(D) Audio and Visual data
	(E)	Answer not known	
101.	An a	udio repository is which of the	following?
	(A)	A web presentation that ware	houses audio files
	(B)	A library cataloguing all MID	I music
	(C)	A website that provides tutori	als on sound
	(D)	A webserver capable of playin	g audio files
	(E)	Answer not known	
102.		n words are indexed and linke system is known as	ed to other words for rapid retrieval,
	(A)	Hyper text	(B) Hyper media
	(C)	Hyper link	(D) None of the above
	(E)	Answer not known	
103.		smoothes the edges color of its edge pixels.	of the image by altering the contrast
	(A)	Tweening	(B) Antialiasing
	(C)	Shading	(D) Kinematics
	(E)	Answer not known	

100. MPEG-1 is used in

104.	With reference to multimedia elements					
	Pick	the odd-one out of the followir	ng.			
	(A)	Graphics	(B) Audio			
	(C)	Animation	(B) Story boarding			
	(E)	Answer not known				
105.	DAT	Γ is an acronym for ————				
	(A)	Digital Audio Track	(B) Data Audio Track			
	(C)	Digital Audio Type	(D) Digital Audio Tape			
	(E)	Answer not known				
106.	Whi	ch HTML tag is used to insert	a flash movie on a web page?			
	(A)	Ahref	(B) Ling			
	(C)	Lingsrc	(D) Embed			
	(E)	Answer not known				
107.		———— is a single point on	a computer screen			
	(A)	cell	(B) element			
	(C)	bit	(D) pixel			
	(E)	Answer not known				
108.	The	effect in which one image trans	sforms to another is termed as			
	(A)	kinematics	(B) morphing			
	(C)	cell animation	(D) path animation			
	(E)	Answer not known				

109.	Sound pressure is measured in					
	(A)	Bands	(B)	Bits		
	(C)	Decibels	(D)	Watts		
	(E)	Answer not known				
110.	Whe	n sound is digitally recorded, it	is s	aid to be		
	(A)	rerecorded	(B)	animated		
	` '	analoged	` ′	digitized		
	(E)	Answer not known	. •			
111.	Whe	n a program assigns 8 bits to colors.	ар	oixel, that pixel can display upto		
	(A)	32	(B)	64		
	(0)	256	(D)	1024		
	(E)	Answer not known				
112.	Whic	ch of the following file extension	ı is ı	used for a Quick Time movie?		
	(A)	.avi	(B)	.mpg		
	(6)	.mov		.sgi		
	(E)	Answer not known				
113.	Hard	lcopy devices produce color out	put 1	using ————— color model		
	(A)	RGB	(2)	CMY		
		YIQ	• •	HSV		
	7 7	Answer not known	` /			

114.	approach looks for duplicate information in frames that follow one another.					
	(A)	Intraframe compression	(B)	Interframe compression		
	(C)	MPEG	(D)	MP3		
	(E)	Answer not known				
115.		ceal Time interactive audio vio by delay between	deo,	Jitter is introduced in real-time		
	(A)	Frames	(B)	Layers		
	(C)	Pixels	(D)	Packets		
	(E)	Answer not known				
116.	Most Common compression used to create CD-quality audio is based on technique.					
	(A)	predictive encoding	(B)	perceptual encoding		
	(C)	- -		JPEG		
	• •	Answer not known				
117.		———— images use a lossy	com	pression method.		
	(A)	GIF		MPEG		
		JPEG	` '	PNG		
	(E)	Answer not known	(-)			
118.		oring done at user's desktop is called	usin	ng common cameras, sounds and		
	(A)	Page based authoring	(B)	Time based authoring		
	(C)	Icon based authoring		ad hoc authoring		
	(E)	Answer not known		Ŭ		

119.	Why is lossy compression preferred:	•
	(A applications where speed is me	ore important than quality
	(B) information is extremely impo	rtant
	(C) suitable for discrete data	
	(D) suitable for pdf files	
	(E) Answer not known	
120.	What is the output of the following p	orogram?
	# include <stdio.h></stdio.h>	
	main()	
	{ prinf ("Hello");	
	void $f_1()$;	
	{ }	
	<pre>printf("Hi");</pre>	
	}	
	(A) Syntax error	
	(B) Runtime error	
	(C) Hi Hello	
	(D) Hello	
	(E) Answer not known	
121.	Which of the following is valid?	
	I. void p;	
	II. void *p;	
	III. void **p;	
	(A) I only	(B) I and II
	(G) II and III	(D) II only
	(E) Answer not known	
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122.		data type of the controlling var e type	riable at a switch statement cannot be			
	(A)	int	(B) char			
	(C)	short	float			
	(E)	Answer not known				
123.	In C	++, are the vis	ibility modifiers.			
	(A)	public and private				
	(B)	(B) public, private and protected				
	(C)	default, private and protected				
	(D)	public, private, default and pr	rotected			
	(E)	Answer not known				
124.	that		ifier which specifies to the compiler be substituted in all places wherever			
	(A)	virtual	(B) static			
	(C)	inline	(D) friend			
	(E)	Answer not known				
125.		———— is not a data type i	n C			
	(A)	int	(B) char			
	(0)	real	(D) void			
	(E)	Answer not known				

126.	Wha	What will be the output of the following program?						
	# ine	dude <stdio.h></stdio.h>						
	# define square(x) x*x							
	maii	n ()						
	{							
	int r	,, ,						
	r=12	25/square(5);						
	prin	tf("%d",r);						
	}							
	(A)	5						
	(B)	25						
	` '	125						
	(D)	error						
	(E)	Answer not known						
127.		is an exit-controlle	d loc	ping statement				
		while		for				
	- '	dowhile	(D)					
	(E)	Answer not known	` ′					
128.	A	member of a clas	ss ca	nnot be inhermed either in public				
		or in private mode by a subclass.						
	(A)	private	(B)	protected				
	(C)	public	(D)	static				
	(E)	Answer not known						

129.		keyword ——ents the compile				definition	
	(A)	static		(B) friend			
	(C)	virtual		(D) inline			
	(E)	Answer not kn	own				
130.	Whic	ch of the followi	ng is not correc	tly method?			
	(A)	abort() – Abno	ormally termina	ate-program			
	(B)	atof() - Conve	_				
	(C)	strcpy() - Cop	y string				
	(D)	quit() – Termi	nate the progra	am			
	(E)	Answer not kn	own				
131.	function locates the position of a character within a string.						
	(A)	strlen()		(B) strcpy()			
	(C)	strcmp()		(D) strchr()			
	(E)	Answer not kn	own				
132.	Wha	t will be the out	put of the follo	wing program?			
	#include <stdio.h></stdio.h>						
	void	void main()					
		{					
		printf ("%d%d	,size of (NULL	a). size of ("")):			
		}	,	-,, (
	(4)	ŕ		(D) 0.1			
	(A)	0 0		(B) 0 1 (D) 2 1			
	(C) (E)	Answer not kn	on	(Y) 2 1			
	L I Z J	- Answer not Kn	OWII				

133.		#include <stdio.h></stdio.h>						
	void main()							
	VOIC	s mam()						
	for (int in0, i<10, i+1)							
	for (int i=0; i<10; i++)							
	1	{ if(i<5) continue;						
	else							
	breal	break;						
	<pre>printf("C programming");</pre>							
	}							
	}							
	(A)	0 times	(B)	1 time				
	(C)	10 times	(D)	5 times				
	(E)	Answer not known						
134.	———— constructors need not be defined							
		copy		default				
		base class	, ,	parameterized				
	•		,					
135.		nction declared as a ———— h if has been declared.		- is not in the scope of the class to				
	(A)	static	(B)	inline				
	(0)	friend	(D)	constructor				
	(E)	Answer not known						
136.	Data hiding is also known as							
	(A)	Data abstraction	(P)	Data encapsulation				
	(C)	Polymorphism	• •	Data protection				
	(E)	Answer not known	. ,	-				
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137.	If P is a printer variable that points to variable V which of the following pairs specifies the value of variable V and its address?						
	(A)	P, &P	(P) *P, P				
	(C)	*P, &P	(D) *V,&V				
	(E)	Answer not known					
138.	Which operator is used to retrieve the address of a variable?						
	(4)	&	(B) *				
	(C)	\rightarrow	(D) •				
	(E)	Answer not known					
139.	Which of the following header file defines malloc()?						
	(A)	c type.h					
	(B)	process.h					
	(C)	stdio.h					
	(D)	stdlib.h					
	(E)	Answer not known					
140.	Which of the following is an attribute of Input Form control?						
	(A)	Readonly	(P) Writeonly				
	(C)	Disabled	(D) Checked				
	(E)	Answer not known					
141.	present a set of choices, from which only one can be						
	chosen.						
	(A)	check box	(P) radio button				
	(C)	list	(D) menu				
	(E)	Answer not known					
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142.	Which of the following is not a web browser?					
	(A)	Internet explorer	(B) opera			
	(Q)	eclipse	(D) netscape navigator			
	(E)	Answer not known				
143.	Which of the following statements regarding Email Attachment is not correct?					
	(A)	The Internet Email system transmit only text				
	(B)	MIME is used to encode email attachments				
	(C)	Different file extensions can be attached in an email attachment				
	(B)	Movies can't be attached				
	(E)	Answer not known				
144.	Which of the following is incorrectly paired?					
	(A)	Email –	Enable people to send private messages			
	(B)	File transfer -	Exchange of files between computers			
	(C)	DNS -	Translate between numeric IP address and the corresponding domain name			
	(D)	Web server -	Handles incoming and outgoing mail			
	(E)	Answer not know	'n			

- 145. Match the following:
 - (a) Bookmark
 - (b) Cookies
 - (c) Firewall
 - (d) SSL
 - (a) (b) (c) (d) 1 2 3 3 2 (B) 4 1 (C) 3 2 1 4 3 (D) 2 4 1
 - (E) Answer not known

- 1. A small amount of information stored in the client machine
- 2. Sits between two networks for security reasons
- 3. Secured was transaction
- 4. An HTML file of links

- 146. An application run by computers to communicate with web servers on the internet is
 - (A) HTML
 - (BY Web Browser
 - (C) Java
 - (D) Web server
 - (E) Answer not known

	(a)	Mod	erated			1.	Save all messages		
	(b)	Arch	ived			2.	Want to keep chatter to minimum		
	(c)	Dige	st			3.	Review all messages before posting		
	(d)	Repl	y to se	nder		4.	Receive each day's message in single big message		
		(a)	(b)	(c)	(d)				
	(A)	1	3		2				
	(B)	2	1	4	3				
	(B)	3	1	4	2				
	(D)	3	4	2	1				
	(E)	Ans	swer n	ot knov	vn				
148.	PGP stands for ————, a program to decrypt and encrypt email inaddition to authenticating email messages through digital signatures and file encrytion.								
	(A)	Puk	olic Gr	ant pri	vacy				
	(R)	Pre	tty Go	od priv	acy				
	(C)	Pre	tty Go	od poli	cy				
	(D)	Pul	olic Go	od Priv	acy				
	(E)	Ans	swer n	ot knov	vn				
149.			ial em		e term	that	internet users apply to unsolicited		
	(R)	Spa							
	(C)	Tra							
	(D)		shing						
	` '		swer n	ot lenor					
	(E)	Alls	swer II	JUKIIO\	A 11				
						30	COMPLETER APPLICATIONS		

147. Match the following:

150.	Which of the following is a file containing the list to be appended to outgoing message?										
	(A)	(A) stationary									
	(B)	signature									
	(C)	header									
	(D)	subject									
	(E)	Answer not known									
151.	_	An allows people to connect into the network over the Internet.									
	(A)	extranet									
	(B)	intranet									
	(C)	arpanet									
	(D)	adhoc network									
	(E)	Answer not known									
152.	Web browsing and most other internet activities rely on										
	(A)	Domain Name Services									
	(B)	Domain Name System									
	(C)	Domain Network Services									
	(D)	Domain Network System									
	(E)	Answer not known									

	(A)	serv	7er					
	(B)	clie	nt					
	(C)	adn	nin					
	(D)	sup	ercom	puter				
	(E)	Ans	wer no	ot knov	wn			
154.	Mat	tch th	e follo	wing H	ITML ta	ags :		
	(a)	& lt				1.	©	
	(b)	& cop	эу			2.	R	
	(c)	& reg	,			3.	TM	
	(d)	N/A				4.	<	
		(a)	(b)	(c)	(d)			
	(A)	4	1	2	3			
	(B)	1	4	3	2			
	(C)	1	3	4	2			
	(D)	2	1	4	3			
	(E)	Ans	wer no	ot knov	wn			
155.			t]	he HTI	ML tag	used to	break a line.	
	(A)	lin	ıe>					
	(B)	<bk< td=""><td>></td><td></td><td></td><td></td><td></td><td></td></bk<>	>					
	(C)		ie brea	k>				
	(D)	<br< td=""><td>></td><td></td><td></td><td></td><td></td><td></td></br<>	>					
	(E)	Ans	wer no	ot knov	wn			

153. Provides services for other computers on the network.

156.		indicates a media object to include in an HTM.									
	docu	met.									
	(A)	<media></media>									
	(B)										
	(C)	<iobject></iobject>									
	(D)	<sound></sound>									
	(E)	Answer not known									
157.	Iden	tify the incorrect statement from the following statement.									
	(A)	tag should be used as the first line of all HTMI documents									
	(B)	<a> tag indicates hyperlink									
	(C)	OWNER> marks up text indicating ownership of information									
	(D)	<applet> for the inclusion of a Java applet</applet>									
	(E)	Answer not known									
158.		element is used to create a floating frame.									
	(A)	<ff></ff>									
	(B)	<fframe></fframe>									
	(C)	<float></float>									
	(D)	<iframe></iframe>									
	(E)	Answer not known									
159.	In H	TML individual items it an ordered list are marked using									
	(A)										
	(B)										
	(C)										
	(D)	<item></item>									
	(E)	Answer not known									
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160.		lar array.
	(A)	Bus
	(B)	Ring
	(C)	Star
	(D)	Diamond
	(E)	Answer not known
161.		allows transaction data to be processed immediately they are generated
	(A)	Batch processing
	(B)	Data processing
	(C)	Quick processing
	(D)	Online transaction processing
	(E)	Answer not known
162.	Mana	agement Information system is basically used by managers at
	(A)	Top level
	(B)	Lower level
	(C)	Middle level
	(D)	Supervisory level
	(E)	Answer not known

163.		is the tool for the management, delivery, tracking and ssment of various types of employee learning.
	(A)	Academic management system
	(B)	Academic monitoring system
	(C)	Learning monitoring system
	(B)	Learning management system
	(E)	Answer not known
164.	The t	term DFD stands for
	(A)	Device functional design
	(B)	Data flow design
	(C)	Device function diagram
	(B)	Data flow Diagram
	(E)	Answer not known
165.	The e	expansion for CASE is
	(A)	Computer Activated Software Engine
	(B)	Computer Aided Software Engineering
	(C)	Computed Activated Software Engineering
	(D)	Connectivity Assisted Software Engine
	(E)	Answer not known
166.		main objective of ———————————————————————————————————
	(A)	Strategic decisions
	(B)	Tactical decisions
*	(C)	Operational decisions
	(D)	Group decisions
	(E)	Answer not known
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.

167. CGI stands for

- (A Common Gateway Interface
- (B) Common Gateway Interaction
- (C) Computer Generated Interface
- (D) Central Gateway Interface
- (E) Answer not known
- 168. The operating system developed by AT & T Bell laboraties is
 - (A) DOS
 - (B) Windows
 - (C) Macintosh
 - (D) Unix
 - (E) Answer not known
- 169. The ability of the computer to run more than one program concurrently is referred to
 - (A) multithreading
 - (B) multiprocessing
 - (G) multi programming
 - (D) Time sharing
 - (E) Answer not known
- 170. ROI stands for
 - (A) Return on Inventory
 - (B) Range of Investment
 - (C) Return on Investment
 - (D) Return on Innovation
 - (E) Answer not known

- 171. The integration of multiple AI technologies into a single application to take advantage of the best features of these technologies is called a
 - (A) Integrated AI system
 - (By Hybrid AI system
 - (C) Inference AI system
 - (D) Fuzzy AI system
 - (E) Answer not known
- 172. Formal review process conducted after a system has been placed in production to determine how well the system has met its original objectives is called as
 - (A) predictive analytics
 - (B) pre-implementation audit
 - (C) portfolio analysis
 - (D) post-implementation audit
 - (E) Answer not known
- 173. A structured repository of data about data is called
 - (A) Data structures
 - (B) Data Dictionary
 - (C) Data base
 - (D) Data mining
 - (E) Answer not known

- - (A) private cloud
 - (B) public cloud
 - (C) on-demand computing
 - (D) ubiquitous network access
 - (E) Answer not known
- 175. The MIS provides timely and effective information to support decision making and other necessary management function. Point out the subsystem which does not belong to the MIS?
 - (A) Automated office system
 - (B) Data communication system
 - (C) Decision support system
 - (D) Operational tactical system
 - (E) Answer not known
- 176. Competitive strategy for developing new market niches for specialized products or services where a business can complete in the target area better than its competitions is called
 - (A) Focused Differentiation
 - (B) Focused Integration
 - (C) Market penetration
 - (D) Focused penetration
 - (E) Answer not known

177.		is a commercial organization with a permanent											
	connection to the internet that sells temporary connection to subscribers.												
	(A)	Internet service provider											
	(B)	Internet security provider											
	(C)	Information service provider											
	(D)	Internet Browsers											
	(E)	Answer not known											
178.		is a person who gains unauthorized access to a computer											
		ork for profit, criminal mischief or personal pleasure.											
	(A)	Demolizer											
	(B)	Informer											
	(C)	Thief											
	(D)	Hacker											
	(E)	Answer not known											
179.		creation of illegitimate sites which appear to be published by olished organisations is called											
	(A)	Spoofing											
	(B)	Cyber vandalism											
	(C)	Sniffer programs											
	(D)	Trojan horse											
	(E)	Answer not known											

180.	Find	the odd one from the following protocols.						
	(A)	TCP/FP						
	(B)	UDP						
	(C)	SMTP						
	(B)	FDDI						
	(E)	Answer not known						
181.	How	many channels can a half-inch diameter fiber optic cable carry?						
	(A)	5,000						
	(B)	5,500						
	(C)	50,000						
	(D)	55,000						
	(E)	Answer not known						
182.	A network which is present within the users home and can be used to connect persons digital devices is called as							
	(A)	LAN						
	(B)	MAN						
	(C)	WAN						
	(D)	HAN						
	(E)	Answer not known						
183.		network, all devices are connected to a device called and communicate through it.						
	(A)	Bus						
	(R)	Star						
	(C)	Ring						
	(D)	Mesh						
	(E)	Answer not known						
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184.	In di	gital transmission the data rate is also called as
	(A)	bit rate
	(B)	pulse rate
	(C)	band rate
	(D)	byte rate
	(E)	Answer not known
185.		is the process of converting digital data to digital signals
	(A)	Line coding
	(B)	Baseline wandering
	(C)	Self-synchronizing
	(D)	Polar schemes
	(E)	Answer not known
186.	Befo	re 1993, the ITU-T was called as
	(A)	CCITT
	(B)	ITU-IRTF
	(C)	ITU-R
	(D)	ITU-D
	(E)	Answer not known
187.		web standards, the ———————————————————————————————————
	(A)	WWW
	(B)	W3C
	(C)	RFC
	(D)	W2C
	(E)	Answer not known
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188.	Point	out	the	wrong	match	given	below.

I. Fair queuing algorithm Nagle 1987

II. Random early detection algorithm - Danthine 1980

III. Packet scheduling algorithm

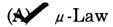
Bhatti and crowcroft 2000

VI. Retri Net model

Floyd 1993

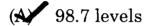
- (A) I
- (B) II and IV
- (C) II and III
- (D) III and IV
- (E) Answer not known
- 189. Which one is not a circuit-switched network phase?
 - I. Connection setup
 - II. Data transfer
 - III. Connection teardown
 - IV. Connection Boost-up
 - I (A)
 - I and III (B)
 - (C) IV
 - II and IV (D)
 - Answer not known (E)
- 190. Protection against wrapped sequence Number (PAWS) is described in
 - (A) RFC 1323
 - (B) RFC 1423
 - RFC 1326 (C)
 - (D) RFC 1332
 - (E) Answer not known

191. Which quantization version is used in North America and Japan?



- (B) A- Law
- (C) α Law
- (D) β Law
- (E) Answer not known

192. 265 kbps to be sent over a noiseless channel with a bandwidth of 20KHz. How many signal levels do we need?



- (B) 96.8 levels
- (C) 97.9 levels
- (D) 98.6 levels
- (E) Answer not known

193. Which radio transmission bands used by military for their communication?

- (A) VLF
- (B) VHF,LF
- (C) VHF,HF
- (D) LF,HF
- (E) Answer not known

194. Match the followin

List I

- (a) Omnidirectional Antenna
- (b) Parabolic Antenna
- (c) Horn Antenna
- (d) Electro magnetic spectrum

	(a)	(b)	(c)	(d)
(A)	4	3	1	2
(B)	3	1	4	2
(C)	2	4	1	3

2 **(E)** Answer not known

(D)

1

195. Point out the wrong statement out of the following

4

3

Packet sniffers examine all packets being transmitted over a (A) network

List II

1.

2.

3.

4.

gigantic scoop

Infrared light

Micro wave

Radio waves

- (B) Filtering software enables to block employee access to certain websites
- (C) In file server network, all nodes on the network have equal relationships to all other nodes.
- A node is a processing location (D)
- Answer not known (E)
- 196. C=12 log (1+P/N) is a ————— expressing the information capacity of a communication channel.
 - Mackey Glass equation
 - (B) Shannon's formula
 - Nyquist formula (C)
 - Hartley's law (D)
 - (E) Answer not known

197.	POTS — allow phone calls to jump the gap present between the POTS and the Internet		
	(A)	Network (B) Router	
	(C)	Hub (Nateways	
	(E)	Answer not known	
198.	Which is the wrong resolution level of MPEG-2?		
	(A)	Low (352×240)	
	(B)	High (1920×1080)	
	(C)	Main(720×480)	
	(D)	Very High(2010×1020)	
	(E)	Answer not known	
199.	Database systems have several schemas, partitioned according to the		
	(A)	Views of Data	
	(B)	Device	
	(C)	Levels of abstraction	
	(D)	Instances	
	(E)	Answer not known	
200.	The modulation scheme can be used to transmit 6-bits per symbol is called ————		
	(A)	QAM - 16	
	(B)	QAM - 64	
	(C)	QAM - 60	
	(D)	QAM - 46	
	(E)	Answer not known	