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

- 1. In which topology, the switch is the server and the peripherals are the clients?
 - (A) Mesh

(B) Tree

(C) Ring

- (D) Star
- (E) Answer not known
- 2. What is EDI?
 - (A) Electrical Data Interchange
- (B) Electronic Data Information
- (C) Electrical Data Information
- (R) Electronic Data Interchange
- (E) Answer not known
- 3. What is SMDS in Network?
 - (A) Simple Mode Data Services
 - (B) Simplex Mode Data system
 - (S) Switched Multi-Megabit Data Services
 - (D) Switched Megabit Data Supply
 - (E) Answer not known
- 4. How many physical channels are required to link n devices in a fully connected mesh network?
 - (A) n(n-1)/2

(B) n/2

(C) (n-1)/2

- (D) (n+1)/2
- (E) Answer not known

5.	Nar laye		h machin	ne that communicate at a give	n				
	(A)	Master – Slave Processe	s						
	(B)	(B) Primary – Secondary Processes							
	(C)	(C) Peer-to-peer Processes							
	(D)	Multipoint Processes							
	(E)	Answer not known							
6.		tem bounces it along in s	_	uter pathway down the line, each until it reaches the destination i					
		Daisy Chain	(B)) Hybrid					
	(C)	Mesh	(D)) Tree					
	(E)	Answer not known							
7.		ne the layer, which is co- information exchanged be		with the syntax and semantics o	of				
	(A)	Physical layer	(B)) Session layer					
	(C)	Presentation layer	(D)) Data link layer					
	(E)	Answer not known							
8.		nsmission media are usua	lly catego	orized as					
		Guided or unguided							
	(B)	Fixed or unfixed							
	(C)	Determinate or indeterm	ninate						
	(D)	Metallic or nonmetallic							
	(E)	Answer not known							

9.	Wha	at is BNC in guided media?		
		Bayonet Neil Concelman	(B)	Boyce Normal form code
	(C)	Byte Number Connector	(D)	Byte Net Connector
	(E)	Answer not known		
10.	The	radio communication spectrum	ı is d	ivided into bands based on
	(A)	Amplitude	(R)	Frequency
	(C)	Cost and hardware	(D)	Transmission medium
	(E)	Answer not known		
11.	A pa	arabolic dish antenna is based o	n th	e geometry of a
	(A)	Circle	(B)	Square
	(C)	[°] Parabola	(D)	Line
	(E)	Answer not known		
12.		at is the limitation of the cros outputs in a grid?	sbar	switch while using more inputs
		Cross points	(B)	Inputs
	(C)	Outputs	(D)	Inputs and outputs
	(E)	Answer not known	(-)	
13.	to re	eceiver.		ollows the same path from sender
	(A)	The virtual approach to packe	t sw	itching
	(B)	Circuit switching		
	(C)	Message switching		
	(D)	The datagram approach to page	cket	switching
	(E)	Answer not known		

14.		work systems that used packets to transfer computers over a network in 1960s?						
	(A) Thomas Marill a	and Lawrence G. Roberts						
	(B) Robert Metcalfe and David Boggs							
	(C) John Murphy an	nd J.C.R. Licklider						
	(B) Leonard Kleinro	ck and Paul Baran						
	(E) Answer not know	wn						
15.		computers and consumer electronics to let them exchange information up to a few kilometers in						
	(A) PAN	(B) MAN						
	(C) LAN	(D) WAN						
	(E) Answer not know	wn						
16.	_	vice that forwards packets between networks by g information included in the packet or data gram						
	(A) Bridges	(B) Switches						
	(C) Repeaters	(D) Routers						
	(E) Answer not know	wn						
17.	A network in which n	odes are arranged hierarchically is called						
	(A) A ring network	(B) A tree network						
	(C) A star network	(D) A bus network						
	(E) Answer not know	wn						

18.	A large computer network that usually spans a city or a large campus is called						
	(A)	Metropolitan Area Network	(B)	Wide Area Network			
	(C)	Global Area Network	(D)	Enterprise Private Network			
	(E)	Answer not known					
19.		etwork under the administration to a		ntrol of a single organization, but fic external network is called			
	(A)	Internet	(B)	Extranet			
	(C)	Darknet	(D)	Intranet			
•	(E)	Answer not known .					
20.	givi		-	ving each router maintain a table destination and which line to use			
	(A)	Shortest Path Routing	(B)	Link State Routing			
	(C)	Hierarchical Routing	(D)	Distance Vector Routing			
	(E)	Answer not known					
21.	Stru	actural flowcharts differ from t	raditi	ional flowcharts by			
		Restricted to composition of b					

- (B) Pseudo codes
- (C) Structured flowcharts with multiple entries
- (D) Structured English
- (E) Answer not known

22. A testing technique that exercise specific paths in a component's c structure to ensure complete coverage of maximum error detection			= = =	
	(A)	Basis path testing	(B)	Integration testing
	(C)	Smoke testing	(D)	Unit testing
	(E)	Answer not known	·	
23.	Whi	ch person does not belongs to I	nspe	ction team?
	(A)	Moderator	(B)	Designer
	(C)	Manager	(D)	Implementer
	(E)	Answer not known		
24.		—— Diagrams can be expresse	ed us	ing informal notations.
	(A)	Data flow	(B)	Structured English
	(C)	HIPO	(D)	Pseudo code
	(E)	Answer not known		
25.			e d e	veloper site by a representative
	grou	up of end users.		
	(A)	Beta	(B)	Alpha
	(C)	Smoke	(D)	Unit
	(E)	Answer not known		·
26.	Dat	a compression will send ———		nount of data in fewer bits only.
	(A)	Little	(B)	Same
	(C)	Absolute	(D)	Relative
	(E)	Answer not known		

27.		ween ——— and ———— iew meeting.	people should be involved in Software			
	(A)	2, 4	(B) 3, 5			
	(C)	6, 7	(D) 2, 3			
	(E)	Answer not known				
28.	In w	vord processing the document	to be printed must be Key-in into			
	(A)	Keyboard	(B) Monitor			
	(C)	Printer	(B) Memory			
	(E)	Answer not known				
29.		—— a document on the scre	een helps you in finding out faults in			
	(A)	Overview	(R) Preview			
	(C)	Menu view	(D) Print			
	(E)	Answer not known				
30.	Rea	dymade formulae in Excel are	termed as			
	(A)	Auto sum	(B) Functions			
	(C)	Work book	(D) Procedures			
	(E)	Answer not known				
31.		syntax for the IF function is -				
	(A) = IF (comparison, action if match, action if no match)					
	(B)	= IF (true, action if match, a	ction if no match)			
	(C)	= IF (action if no match, acti	on if match, comparison)			
	(D)	= IF (false, action if match, a	action if no match)			
	(E)	Answer not known				

32.	The major issue in waterfall model is							
	(A) No documentation	(B) We cannot back track						
	(C) More complex to continue	(D) Concurrency in development						
	(E) Answer not known							
33.	The problem analysis phase ma	ay be known as the ——— phase.						
	(A) Analysis of problem	(B) Study of problem						
	(CV Feasibility study	(D) Detailed analysis						
	(E) Answer not known							
34.	. What factors determines the profitability of a system?							
	(A) Cost benefit analysis and	- ·						
	(B) Return on investment and							
	(C) Economic feasibility and t	echnical feasibility						
	(D) None							
	(E) Answer not known							
35.	is a term coined to animation.	includes graphics, sound, picture and						
	(A) Cinema	(B) Picture						
	(S) Multimedia	(D) Visual unit						
	(E) Answer not known							
36.	Data capture is the ——— ar	nd ——— of new data.						
	(A) Identifying and Capturing	(B) Identifying and Key-in						
	(Identifying and Acquisitio	n (D) Identifying and Analysing						
	(E) Answer not known							

	By using the arrow key while holding SHIFT key						
	(B)	By using the arrow key w	nile holding CTRL key				
	(C)	By dragging the mouse right button					
	(D)	By pressing cut and paste	key				
	(E)	Answer not known					
38.		—— technique that simpl	ifies the design of a component wit	hout			
		Refinement	(B) Information hiding				
	(6)	Refactoring	(D) Restructuring				
	(E)	Answer not known					
39.	(A) (B) (C)	Programs of different mod Reusable software compon Component based software	ents e solutions				
	(D) (E)	Answer not known	software to composing software				
40.		ratio of the size of the or a is called as	ginal data to the size of the compre	ssed			
	(A)	Compressed rate	(B) Compression ratio				
	(C)	Compressed image	(D) Hit ratio				
	(E)	Answer not known					

37. Text selection can be done

- The transformation that moves objects without deformation is known as 41. transformations. (A) Composite (B) Geometric (D) Rigid-body (C) Affine (E) Answer not known On a color monitor system with multiple bits per pixel, the frame buffer 42.
- is called as a (B) Pixmap (A) Bitmap
 - (C) Refresh buffer (D) Display file (E) Answer not known
- The device for specifying a coordinals position (x, y) is known as
- (A) Locator (B) Coordinator (D) Valuator (C) Actuator
 - (E) Answer not known

43.

In two-dimensional translation, a point (x, y) can move to the new 44. position (x', y') by using the equation

(A)
$$x' = x + ty, y' = y + tx$$
 (B) $x' = x - ty, y' = y - tx$ (C) $x' = x + tx, y' = y + ty$ (D) $x' = x - tx, y' = y - tx$

(6)
$$x' = x + tx, y' = y + ty$$
 (D) $x' = x - tx, y' = y - tx$

- (E) Answer not known
- The transformation that is used to alter the size of the object is 45.
 - (P) Scaling (A) Translation (C) Reflection (D) Rotation
 - (E) Answer not known

46.		ing scaling, if scale factors are	S_x	$=S_y=S_z=S>1$ then the scaling
	(A)	Magnification	(B)	Reduction
	(C)	Reflection	(D)	Rotation
	(E)	Answer not known		
47.		—— is the ratio of vertical polluce equal length lines in both		to horizontal points necessary to
	(AV	Aspect ratio		Bitmap ratio
	(C)	Pixmap ratio		Vertical retrace
	(E)	Answer not known	(-)	
48.		process of returning to the le	ft of	the screen after refreshing each
	(A)	Vertical retrace	(B)	Horizontal retrace
	(C)	Bitmap retrace	(D)	Pixmap retrace
	(E)	Answer not known		
49.		Algorithm that is used to fill i		area that is not defined within a thm.
	(A)	Boundary fill	(B)	Area fill
	(G)	Flood fill	(D)	Scan fill
	(E)	Answer not known	, ,	
50.	Dur	ing Scaling if $S_x = S_y > 1$ it me	ans	
	(A)	Uniform reduction	(B)	Uniform elongation
	(C)	No change		Shape distortion
	(E)	Answer not known		•
				•

13

Computer Science [Turn over

51.	The resolution of raster scan display is						
	(A)	High	(B)	Low			
	(C)	Very high	(D)	Medium			
	(E)	Answer not known					
52.	Refr	esh rate for a monitor is meas	ured	in			
	(A)	$ ho_{ m Hz}$	(B)	MHz			
	(C)	KHz	(D)	GHz			
	(E)	Answer not known		•			
53.		. 7 is the mirror image of an occion?	bject	t obtained relative to an axis of			
	(A)	Rotating the object 90°	(R)	Rotating the object 180°			
	(C)	Rotating the object 270°	(D)	Rotating the object 360°			
	(E)	Answer not known					
54.	Wha	at happens when reflection is a	.bout	the line $y = 0$?			
	(A)	Flips y values					
	(B)	Flips x values					
	(C)	Flips both x and y values					
	(D)	Flips neither x nor y values					
	(E)	Answer not known					

55. Which of the following is the transformation matrix for reflection relative to the coordinate origin?

(A)
$$\begin{bmatrix} -1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

$$\begin{bmatrix}
-1 & 0 & 0 \\
0 & -1 & 0 \\
0 & 0 & 1
\end{bmatrix}$$

(C)
$$\begin{bmatrix} 1 & 0 & 0 \\ 0 & -1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

(D)
$$\begin{bmatrix} -1 & 0 & 0 \\ 0 & -1 & 0 \\ 0 & 0 & -1 \end{bmatrix}$$

- (E) Answer not known
- 56. What do positive values for the rotation angle define for a rotation transformation?
 - (A) Clockwise rotation about pivot point
 - (B) Counter clockwise rotation about pivot point
 - (C) Clockwise rotation about fixed point
 - (D) Counter clockwise rotation about fixed point
 - (E) Answer not known
- 57. Which of the following device is used for specifying a coordinate position, (x, y)?
 - (A) Locator

(B) Stroke

(C) Choice

- (D) Pick
- (E) Answer not known
- 58. In which mode, the processing is suspended until the required values are received?
 - (A) Request

(B) Sample

(C) Event

- (D) Pick
- (E) Answer not known

59.	To which of the following can the odd parity rule be applied?						
	(A)	curve	(B)	arc			
	(C)	polygon	(D)	chord			
	(E)	Answer not known					
60.	Whi	ch algorithm used 4-connected	or 8	- connected to fill polygons?			
	(A)	boundary – fill	(B)	flood - fill			
	(C)	fill - area	(D)	area – fill			
	(E)	Answer not known					
61.	The	return statement is not needed	d for	methods.			
	(A)	recursive	(B)	static			
		void	(D)	int			
	(E)	Answer not known					
62.	Any	variable if is to be declared in		_			
	(A)	Actual parameter	(B)	Formal parameter			
	(C)	Local parameter	(D)	Global parameter			
	(E)	Answer not known					
63.	One	of the following is not a uncon	ditio	nal control transfer			
	(A)	goto	(B)	break			
	(C)	continue	(D)	f if			
	(E)	Answer not known					

64.	refers to the procedure of representing essential features with out including the back round details.						
		Dynamic binding		Data binding			
		Abstraction		Encapsulation			
	(E)	Answer not known	(/				
65.	Whi	ch one of the following is called	d ext	raction operator?			
	(A)	>>	(B)	<<			
	(C)	>>>	(D)	<<<			
	(E)	Answer not known					
66.		operator is called as refer	ence	operator.			
	(A)	&	(B)	*			
	(C)	~ '	(D)	1			
	(E)	Answer not known					
67.	Whi	ch one of the following is not a	erro	or trapping functions?			
	(A)	fail()	(B)	eof()			
	(C)	bad()		get()			
	(E)	Answer not known					
68.	Pick	the operator from the following	ng th	nat can be overloaded in C++			
	(A)	?:	(B)				
	(G)	/_	(D)	::			
	(E)	Answer not known					

69.	The	new and delete in C++ are						
	(A)	Methods	(B)	Keywords				
	(C)	Variables	(D)	Symbols				
	(E)	Answer not known						
70.	Whe	en a file is opened in read or w	rite n	node, the file pointer is set				
	(4)	at the beginning of the file	(B)	at the end of the file				
	(C)	in the middle of the file	(D)	not set in any place				
	(E)	Answer not known						
71.	In J	ava int data type occupy ———	— b	ytes.				
	(A)	2 bytes	(B)	8 bytes				
	(C)	1 byte	(D)	4 bytes				
	(E)	Answer not known						
72.	What is the order of precedence of following operators?							
	1.	&						
	2.	^						
	3.	?:						
	(A)	1 1, 2, 3	(B)	2, 1, 3				
	(C)	3, 2, 1	(D)	2, 3, 1				
	(E)	Answer not known						
73.	The	default access specifier for ma	in()	method in Java is				
	(A)	Private		Public				
	` '	Protested	(D)	Static				
	(E)	Answer not known	. ,					
	•							

74.	Whi	Which one of the following can not be operands of arithmetic operators?								
	(A)	Numeric	(B)	Boolean						
	(C)	Characters	(D)	Numeric and Characters						
	(E)	Answer not known								
75 .		package contains the exce	eptio	n stack overflow in Java.						
	(A)	Java.lang	(B)	Java.ubl						
	(C)	Java.io	(D)	Java.Net						
	(E)	Answer not known								
76.		array elements are always stor	ed in	memory locations.						
	(A)	Sequential	(B)	Random						
	(C)	Sequential and Random	(D)	Dynamic						
	(E)	Answer not known								
77.	Wha	at is the range of byte data type	e in J	Java?						
	(A)	-128 to +127	(B)	0 to 32767						
	(C)	-32766 to +32767	(D)	0 to 255						
	(E)	Answer not known								
78.	Any	variable defined inside a meth	od is	s referred as a						
	(A)	Global variables	(B)	Formal parameter						
	(C)	Actual parameter	(N)	Local variable						
	(E)	Answer not known								
79.	In in	nheritance a new class is also c	alled	las						
	(A)	Child class	(B)	Extented class						
	(C)	Derived class	(D)	All the above						
	(E)	Answer not known								
				2 . ~ -						

	(A)	Public static		(B)	Protected final					
	(C)	Private static final		(D)	Public static final					
	(E)	Answer not known								
81.	The	world wide web was	devel	oped in						
	(A)	1967		(B)	1988					
	(G)	1989		(D)	1947					
	(E)	Answer not known								
82.	Whi	ch of the following is	incor	rectly pai	red?					
	(A)	Internet services	_	FTP						
	(B)	Protcol	_	Set of ru	ıles					
	(C)	HTML	_	Web bro	owser					
	(D)	URL	_	Uniform	resource locator					
	(E)	Answer not known								
83.	A Se	earch Engine is a too	l used							
	(A)	To searches the web with one or more keyword								
	(B)	To submits the search to more than one search engine								
	(C)	To hire a real person to perform our search								
	(D)	To organizes its con	itent h	nierarchio	cally by subject					
	(E)	Answer not known								

80. In interface all variables must be declared as

84.	The title given within title Tag appears									
	(A) On the Screen	(A) On the Screen								
	(B) On the Web Page	(B) On the Web Page								
	(C) On the Address Box									
	(D) On the bar at the top of	of the Browser Window								
	(E) Answer not known									
85.	Which part contains the act	cual page content?								
	(A) Head Section	(B) Body Section								
	(C) HTML FORM	(D) Script Section								
	(E) Answer not known									
86.	Name the attribute of anchor tag that tells the browser to get another html document on the web?									
	(A) Align	(B) Font								
	(C) Href	(D) Color								
	(E) Answer not known									
87.	Table cell can be specified by which of the following tag?									
	(A) < Table >	(B) $\langle \text{tr} \rangle$								
	(G)	(D) $$								
	(E) Answer not known									
88.	TCP / IP stands for									
	(A) Transformation Contr	ol Protocol / Internet Protocol								
	(B) Transmission Control	(B) Transmission Control Processor / Internet Processor								
	(C) Transmission Control	Protocol / Internet Protocol								
	(D) Transfer Common Pro	grams / Information Processor								
	(E) Answer not known									

89.	Web	Indexes use ———	links to pres	ent their list of resources.				
	(A)	Tool	(B)	Link symbol				
	(G)	Hyper text	(D)	Protocol				
	(E)	Answer not known						
90.	Eac	h host computer on the	Internet has	s a unique number called				
	(A)	Serial No	(B)	Port address				
	(C)	IP address	(D)	Web address				
	(E)	Answer not known						
91.	A Fo	older of Internet shorte	uts is	•				
	(A)	Internet Explorer	(R)	Favorites				
	(C)	Internet Shortcut	(D)	History				
	(E)	Answer not known						
92.	What does the number 99 refers in the command <body bgcolor="#99FF FF">?</body>							
	(A)	Amount of Green Cole	or (B)	Amount of Blue Color				
	(C)	Amount of Black Colo	or (B)	Amount of Red Color				
	(E)	Answer not known						
93.	How	v to receive a feed back	from web pa	ge?				
	(A)	Using Frames	(B)	Using Ordered list				
	(C)	Using Forms	(D)	Using Tables				
	(E)	Answer not known						

94.		symbol ress?	which	is d	lifferent	tiating	the	email	address	and	website
	(A)	#				(B)	•				
	(G)	@				(D)	a				
	(E)	Answer	not kn	own							
95.	Whi	ch is use	d to list	the	Unread	l mail?					
	(A)	Drafts				(B)	Ser	nt Item	s		
	(G)	Inbox				(D)	Tra	ısh			
	(E)	Answer	not kno	own							
96.		ch is t		west	and	best	stan	dard	method	for	sending
	(A)	MIME				(B)	PO	P	•		
	(C)	SMTP		•		(D)	HT	TP			
	(E)	Answer	not kn	own							
97.	The	email ad	dress h	as tv	wo main	ı parts,	join	ed by			
	(A)	\$				(B)	@				
	(C)	1				(D)	&				
	(E)	Answer	not kn	own							
98.		en you re	eplay to	o a n	nessage	e, the s	ubje	ct of tl	ne origina	al me	essage is
	(A)	RS				(B)	FW	ī			
	(C)	RW				(D)	Re				
	(E)	Answer	not kn	own							

99.	To delete the email massage click on								
	(A)	Trash icon	(B)	Folder icon					
	(C)	Cut icon	(D)	Delete icon					
	(E)	Answer not known							
100.	New	messages are stored in which	folde	er?					
	(A)	<u>-</u>		Draft					
	(G)/	Inbox	(D)	Junk					
	(E)	Answer not known							
101.	Which of the following operation of two propositions A and B is true is at least any of the propositional variable A or B is true?								
		OR (v)		•					
	(B)	AND (\land)							
	(C)	Negation ()							
	(D)	Implication (\rightarrow)							
	(E)	Answer not known							
102.	Whi	ch of the following is the invers	se of	the statement					
		"If you do your homework, you will not be punished".							
	(A)	A) You will not be punished if you do your homework							
	(B)	If you do not do your homewo	rk yo	ou will be punished					
	(C)	If you will not be punished, yo	ou do	your homework					
	(D)	If you are punished, you do yo	our h	omework					
	(E)	Answer not known							

- 103. Which of the following is not a proposition?
 - (A) Toronto is the capital of Canada
 - (B) 1 + 2 = 3
 - (C) x + 1 = 2
 - (D) 2 * 5 = 6
 - (E) Answer not known
- 104. Which of the following sets is infinite?
 - (A) $A = \{x : x \text{ is a prime number}\}$
 - (B) $B = \{x : x \text{ is irrational and } x^2 1 = 0\}$
 - (C) $C = \{x : x \in z \text{ and } -2 \le x \le 2\}$
 - (D) $D = \{(x : x \in z \text{ and } x 2 = 0)\}$
 - (E) Answer not known
- 105. If $A = \{x : x \text{ is an even natural number } \le 10\}$ and $B = \{x : x \text{ is an odd natural number } \le 10\}$ what is B A?
 - (A) $\{2, 4, 6, 8, 10\}$
 - (B) $\{1, 3, 5, 7, 9\}$
 - (C) {}
 - (D) $\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$
 - (E) Answer not known

106. When is a function said to be an odd function?

- (A) On an interval (a,b), if it is either increasing or decreasing
- (B) f(-x)=f(x)
- $(\mathbf{C}) f(-x) = -f(x)$
- (D) f(x) = [x] which is the greatest integer less than or equal to x
- (E) Answer not known

107. If $f(x) = x^3, f: R \to R$ $g(x) = \frac{1}{x}; g: R - \{0\} \to R - \{0\}$ find gof

- (A) 1/x
- (B) $1/x^2$
- $(C) 1/x^3$
- (D) x
- (E) Answer not known

108. How is a graph called if there are no non trivial cycles?

- (A) Cyclic
- (B) Acyclic
- (C) Loop
- (D) Loopless
- (E) Answer not known

109. What does the meet operation of a poset correspond to?

- (A Greatest common divisor
- (B) Least common multiple
- (C) Prime number
- (D) Perfect number
- (E) Answer not known

- 110. When is a state said to be an accepting state?
 - (A) If its input is 1
 - (B) If its output is 1
 - (C) If its input is 0
 - (D) If its output is -1
 - (E) Answer not known
- 111. What is an acceptor?
 - (A) An automata that computes a boolean function
 - (B) An automata that has a finite number of states
 - (C) An automata where there is no element of choice
 - (D) An automata that has infinite number of states
 - (E) Answer not known
- 112. Find the domain of $f(x) = 2\sqrt{x+4}$
 - (A) $(-4,\infty)$
 - (B) $\left[-4,\infty\right]$
 - (G) $[-4,\infty)$
 - (D) (-4,4)
 - (E) Answer not known
- 113. Which of the following is defined as the union of all the power of the base language?
 - (A) Hasse's diagram
 - (B) Kleene's star
 - (C) Cross
 - (D) Universe
 - (E) Answer not known

- 114. Identify the incorrect statement
 - (A) A DFA is a way to implement regular grammar
 - (B) A pushdown automaton is a way to implement regular grammar
 - (C) A DFA can remember finite amount of information
 - (D) A push down automaton PDA can remember infinite amount of information
 - (E) Answer not known
- 115. Which among the following is false?
 - (A) Deterministic pushdown automata has more powers than Non-Deterministic pushdown automata
 - (B) For Type-2 grammar we can design push down automata
 - (C) For Type-3 grammar we can design finite automata
 - (D) Non-Deterministic pushdown automata has more powers than Deterministic pushdown automata
 - (E) Answer not known
- 116. Which of the following language is generated by Type-o grammars?
 - (A) Regular
 - (B) Context-free
 - (C) Context-sensitive
 - (D) Recursively-enumerable
 - (E) Answer not known

117. When is a sequence of elements in a partial order an ascending chain?

$$(A) \quad n \leq m \Rightarrow l_n \leq l_m$$

- (B) $n = m \Rightarrow l_n = l_m$
- (C) $n > m \Rightarrow l_n > l_m$
- (D) $n \ge m \Rightarrow l_n \ge l_m$
- (E) Answer not known
- 118. Which of the following is logically equivalent to $\neg (P \land Q) \rightarrow (\neg P \lor (\neg P \lor Q))$
 - (A) $\neg P \land \neg Q$
 - (B) $P \wedge Q$
 - (C) $P \vee Q$
 - (D) $P \vee \neg Q$
 - (E) Answer not known
- 119. Which of the following is a tautology?

$$(A P \lor \neg P$$

- (B) $P \wedge \neg P$
- (C) $P \vee Q$
- (D) $P \vee \neg Q$
- (E) Answer not known

- 120. Which of the following is incorrect?
 - (A) A function is one to one if it is either strictly increasing or strictly decreasing
 - (B) One-to-one function never assigns the same value to two different domain elements
 - (C) For onto function, range and co-domain are equal
 - (D) If a function, f is not bijective, inverse function of f can be easily defined
 - (E) Answer not known
- 121. The _____ keeps a copy of the complete state of the system that includes all register, collects hardware fault signals and manages the hardware recovery actions.
 - (A) Instruction decode unit (IDU)
 - (B) Instruction sequence unit (ISU)
 - (C) Dedicated co-processor (COP)
 - (D) Recovery unit (RU)
 - (E) Answer not known
- 122. Which of the following is the first generation microprocessor
 - (A) INTEL 4004, INTEL 8008
 - (B) INTEL 8085, INTEL 8080
 - (C) INTEL 8086, INTEL 8088
 - (D) INTEL 80386, INTEL 80486
 - (E) Answer not known

123.	Using ————, the CPU may execute a program with the device address as an input parameter to compute the starting address of the interrupt service routine.							
	(A) Polling scheme							
	(B) Daisy chaining priority scheme							
	(C) Vectored Interrupt							
	(D) Independent Interrupt request							
	(E) Answer not known							
124.	NMOS technology were used in generation microprocessors.							
	(A) Fourth							
	(R) Second							
	(C) Third							
	(D) Fifth							
	(E) Answer not known							
125.	is used to connect a number of slow and medium speed devices and operate simultaneously by interleaving their data transmission.							
	(A) Selector channel							
	(B) Execution of IO instruction							
	(C) IO Bus structure							
	(D) Multiplexer channel							
	(E) Answer not known							

- 126. In which addressing mode, the instruction specifies the name of the register in which the address of the data available?
 - (A) Register addressing
 - (B) Implied addressing
 - (C) Register indirect addressing
 - (D) Immediate addressing
 - (E) Answer not known
- 127. The flag conditions are altered after execution of an instruction in this group which performs different arithmetic operations are called as
 - (A) Branching Instructions
 - (B) Logical Instructions
 - (C) Arithmetic Instructions
 - (D) Machine control Instructions
 - (E) Answer not known
- 128. In 8086 processor, which flag is set if a certain register content becomes zero following an increment or decrement operation of that register?
 - (A) Sign flag
 - (B) Parity flag
 - (C) Zero flag
 - (D) Carry flag
 - (E) Answer not known

129.	the	is a special purpose register which, at a address of the next instructions to be fetched.	given time stores
	(A)	Stack pointer	
	(B)	Temporary register	
	(C)	Register A	
	(D)	Program counter	
	(E)	Answer not known	
130.		ne memory unit with 4096 words, how many b ify an address?	its are needed to
	(A)	10 bits	
	(B)	12 bits	
	(C)	24 bits	
	(D)	16 bits	
	(E)	Answer not known	
131.	Whi	ch register is used to hold memory operand?	
	(A)	Computer register	
	(B)	Address register	
	(Cy	Data register	
	(D)	Accumulator	
	(E)	Answer not known	
132.	Fine	the correct sequence of phases for instruction cyc	le?
	(A)	Fetch, Decode, Read Effective address, Execute	
	(B)	Decode, Fetch, Execute, Read Effective Address	
	(C)	Decode, Execute, Fetch, Read Effective Address	
	(D)	Fetch, Execute, Read Effective Address, Decode	
	(E)	Answer not known	
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133. Which one of the following is the data manipulation instruction? (A) Load LD (B) Exchange XCH (C) Enable interrupt EI (D) Skip (E) Answer not known 134. Arrange the following item according to the year of Introduction? Pentium II (I) (II) Pentium Pro (III) Pentium 4 (IV) 80486 (A) IV, II, III, I (B) IV, I, II, III (CY IV, II, I, III (D) IV, I, III, II (E) Answer not known 135. How many registers are in 8085 to store 8-bit data? (A) 4 (B) 6

(C) 5

(D) 7

(E) Answer not known

136.	In	parallel	processing	the	amount	of	processing	that	can	be
	acc	omplished	during a giv	en in	terval of t	ime	is called			

- (A) Speed
- (B) Multi task
- (C) Efficiency
- (B) Through put
- (E) Answer not known
- 137. Dividing an arithmetic operation into sub operation for execution is called as
 - (A Arithmetic pipeline
 - (B) Vector pipeline
 - (C) Logical pipeline
 - (D) Shift pipeline
 - (E) Answer not known
- 138. A memory constructed with 512×8 ROM chip. How many address lines are needed to represent an memory address?
 - (A) 8
 - (**R**) 9
 - (C) 10
 - (D) 11
 - (E) Answer not known

139.	A m	emory which has the property of locality of reference is in
	(A)	Main memory
	(B)	Secondary storage memory
	(G)	Cache memory .
	(D)	Virtual memory
	(E)	Answer not known
140.		is a procedure used to identify the highest priority source oftware?
	(A)	Priority interrupt
	(B)	Hardware priority
	(C)	Vector priority
	(B)	Polling
	(E)	Answer not known
141.		ch control statement is used to execute the loop atleast once, before king the condition?
	(A)	For statement
	(B)	If statement
	(C)	While statement
	(D)	Do while statement
	(E)	Answer not known
142.	Whi	ch character is added automatically at the end of every string?
	(A)	0 (or) NULL character
	(B)	$\setminus n$ (or) Newline character
	(C)	$\setminus t$ (or) Horizontal tab
	(D)	∖r (or) Carriage return
	(E)	Answer not known
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- 143. What is the worst case of computing time of quick sort?
 - $O(n^2)$
 - (B) $O(n \log_2 n)$
 - (C) $O(n^2 \log n)$
 - (D) O(n)
 - (E) Answer not known
- 144. How to assign the address of V to another variable PV?
 - (A) PV = address(v)
 - (B) PV = addr(v)
 - (C) PV = &v
 - (D) PV = *v
 - (E) Answer not known
- 145. Write the asymptotic computing time for the addition of two polynomials where n and m are orders of given polynomials.
 - (A) O(n)
 - (B) $O(n^2)$
 - O(n+m)
 - (D) O(nm)
 - (E) Answer not known

146.	Operating systems keep track of users waiting for resources such as CPU, printing etc is an example of							
	(A)	Stack						
	(B)	Queue						
	(C)	Tree						
	(D)	Graph						
	(E)	Answer not known						
147.	While adding any element into a Queue, what condition is to be checked?							
	·(A)	rear = n						
	(B)	front = rear						
	(C)	rear = 0						
	(D)	front = 0						
	(E)	Answer not known						
148.	Whi	ch searching techniques require the input to be sorted files?						
	(A)	Linear and Binary						
	(B)	Linear and Fibonacci						
	(C)	Binary and Fibonacci						
	(D)	Binary, Fibonacci and Interpolation						
	(E)	Answer not known						
149.	The	top most node in the tree is called as						
	(A)	Leaf node						
	(B)	Non-terminal node						

(C) Terminal node

(E) Answer not known

(D) Root node

- 150. What is the prefix form of the infix expression A/B * *C * D + E?
 - (A) +*/**ABCDE
 - (B) + */A * *BCDE
 - (C) + /* A * * BCDE
 - (D) + /* AB * *CDE
 - (E) Answer not known
- 151. What implies if O(n) is the computing time of an algorithm?
 - (A) Quadratic
 - (B) Linear
 - (C) Exponential
 - (D) Cubic
 - (E) Answer not known
- 152. In Quick sort if key k_i is placed in position s(i), then $k_j \leq k_{s(i)}$ for j < s(i) and $k_j \geq k_{s(i)}$ for j > s(i). After this positioning has been made the original file is partitioned into
 - (A) Two sub files
 - (B) Single file
 - (C) Three sub files
 - (D) Four sub files
 - (E) Answer not known

- 153. The function used to store the result on char buffer and can be printed later on the monitor is
 - (A) Lprintf()
 - (B) printf()
 - (Cy Sprintf ()
 - (D) Buffprint ()
 - (E) Answer not known
- 154. Function calling itself is termed as
 - (A) Nested function
 - (B) Recursion
 - (C) Sub function
 - (D) Function call
 - (E) Answer not known

```
155. main ()
{
    int dat = 100, * var;
    var = & dat;
    printf ("%d, %d", dat, * var);
}
```

What is the output of the above program?

- (A) 100, 1000
- (B) 100, 10
- (C) 100, 0
- (D) 100, 100
- (E) Answer not known

```
156. What is the output of the program?
     main()
     {
     int x;
     char ch = 'A';
     x = ch + '8';
     printf ("%d", x);
     }
     (A) 0
     (B)
          9
     (C) 121
     (D) Ch8
     (E) Answer not known
157. What are different types of file queries available?
          Simple Query
     (I)
     (II) Range Query
     (III) Functional Query
     (IV) Boolean Query
     (A) I & IV
     (B) II & III
```

(C) I & II

(D) I, II, III & IV

(E) Answer not known

158. What is the method of maintaining a file and index?

- (A) Cylinder surface indexing method
- (B) Sequential method
- (C) Indexed method
- (D) Indexed sequential access method
- (E) Answer not known

159. How to get bucket address using mid-square hash function?

- (A) $f_D(X) = X \mod M$
- (B) Squaring the identifier and then using an appropriate number of bits from the middle of the square
- (C) X is partitioned into several parts, these parts are added together
- (D) Each identifier X is interpreted as a number using some radix r
- (E) Answer not known

What happens to the output of the program?

- (A) "Welcome" will be printed once
- "Welcome" will be printed infinite no of times
- (C) Logical error
- (D) No output
- (E) Answer not known

161.	The Assembler directive "RESB" is used to							
	(A)	Generate one-byte integer con	stan	\mathbf{t}				
	(B)	Generate one-word integer con	nstai	nt				
	(G)	Reserve the indicated number	of b	ytes for data				
	(D)	Reserve the indicated number	ofw	vords for data				
	(E)	Answer not known						
162.	Which of the following is used to refer to segments of code that are rearranged within a single object program unit?							
	(A)	Program blocks	(B)	Control sections				
•	(C)	External references ·	(D)	Literal pools ·				
	(E)	Answer not known						
163.	What is the part of compiler that performs lexical analysis?							
	(A)	Parser	(B)	Scanner				
	(C)	Modifier	(D)	Interpreter				
	(E)	Answer not known						
164.	Thre	ee address code is						
	(A)	Intermediate language	(B)	Machine language				
	(C)	Natural language	(D)	High language				
	(E)	Answer not known						
165.	What is a symbol table?							
	(A)	The data structure created by compiler to store information						
	(B)	Memory in which program ne	eded	by compiler is stored				
	(C)	The space in which symbols w	hich	are used by compiler are stored				
	(D)	Auxiliary storage device						
	(E)	Answer not known						

166.	What is the purpose of batch processing?						
	(A)	to avoid the error	(B)	to speedup the processing			
	(C)	to save memory	(D)	to secure data			
	(E)	Answer not known					
167.	Which of the following is not an assembler directive?						
	(A)	START	(B)	BYTE			
	(G)/	LDA	(D)	RESW			
	(E)	Answer not known					
168.	Numbers, quoted character strings and other self-defining data are classified as						
	(A)	Identifier	(R)	Literal			
	(C)	Terminals	(D)	Variables			
	(E)	Answer not known					
169.	Which of the following will transfer a process from wait-state to a ready state?						
	(A)	Process creation	(B)	Process scheduling			
	(C)	Process suspending	(D)	Process resuming			
	(E)	Answer not known					
170.	In which state, the process may be suspended						
	(A)	Blocked state	(B)	Ready state			
	(C)	Blocked or Ready state	(D)	Running state			
	(E)	Answer not known					

- 171. A file system is concerned with
 - (A) Physical organization of Information
 - (B) Logical organization of Information
 - (C) Processor management
 - (D) Device management
 - (E) Answer not known
- 172. A situation in which two processes are unknowingly by waiting on resources that are unavailable is called
 - (A) Race condition
 - (B) Stalemate
 - (C) Multi processor systems
 - (D) Taggle state
 - (E) Answer not known
- 173. Which page replacement algorithm replace a resident page that has not been accessed in near past?
 - (A) FIFO replacement algorithm
 - (B) Optimal page replacement algorithm
 - (C) Clock page replacement algorithm
 - (D) Least recently used algorithm
 - (E) Answer not known
- 174. Expand Spooling
 - (A) Small peripheral operation online
 - (B) Simultaneous peripheral operation online
 - (C) Spontaneous primary operation online
 - (D) Simultaneous primary operation online
 - (E) Answer not known

175.		ch type of loading will load routines in main memory at time of cution?
	(A)	Static loading
	` '	Dynamic loading
	(C)	Compile-time loading
	(D)	Schedule loading
	(E)	Answer not known
176.		merges adjacent holes into single larger hole.
	(A)	Merging
	(B)	Binding
	` '	Coalescing
	(D)	
	(E)	Answer not known
177.		which situation a process or a set of processes is blocked and waiting resource held by other waiting processes?
	(A)	Semaphore
	(B)	Mutual exclusion
	(G)	Deadlock
	(D)	Monitor
	(E)	Answer not known
178.	In w	which situation, a process indefinitely wait for a resource?
	(A)	Deadlock release
	(B)	No deadlock
	(G)/	Starvation
	(D)	Deadlock avoidance
	(E)	Answer not known
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(A) Direct communication (B) Symmetric communication (C) Indirect communication (D) Automatic buffering (E) Answer not known 180. Which is considerably cheaper for storing data? (A) Magnetic tape (B) Hard disk (C) Optical disk (D) Super disk (E) Answer not known 181. Database is defined as (A) The collection of data (B) The collection of records (C) The collection of interrelated data (D) The collection of logically interrelated data (E) Answer not known 182. A file which has more than one index, with a different key is kn (A) Hashed file (B) Indexed file (C) Transaction file (C) Inverted file (E) Answer not known	179.	The messages are sent to and received from mailboxes, or ports are						
(C) Indirect communication (D) Automatic buffering (E) Answer not known 180. Which is considerably cheaper for storing data? (A) Magnetic tape (B) Hard disk (C) Optical disk (D) Super disk (E) Answer not known 181. Database is defined as (A) The collection of data (B) The collection of records (C) The collection of interrelated data (D) The collection of logically interrelated data (E) Answer not known 182. A file which has more than one index, with a different key is kn (A) Hashed file (C) Transaction file (D) Inverted file		(A)	Direct communication					
(D) Automatic buffering (E) Answer not known 180. Which is considerably cheaper for storing data? (A) Magnetic tape (B) Hard disk (C) Optical disk (D) Super disk (E) Answer not known 181. Database is defined as (A) The collection of data (B) The collection of records (C) The collection of interrelated data (D) The collection of logically interrelated data (E) Answer not known 182. A file which has more than one index, with a different key is kn (A) Hashed file (B) Indexed file (C) Transaction file		(B)	Symmetric communication					
(E) Answer not known 180. Which is considerably cheaper for storing data? (Magnetic tape (B) Hard disk (C) Optical disk (D) Super disk (E) Answer not known 181. Database is defined as (A) The collection of data (B) The collection of records (C) The collection of interrelated data (D) The collection of logically interrelated data (E) Answer not known 182. A file which has more than one index, with a different key is kn (A) Hashed file (C) Transaction file (D) Inverted file		(C)	Indirect communication					
180. Which is considerably cheaper for storing data? (Magnetic tape (B) Hard disk (C) Optical disk (D) Super disk (E) Answer not known 181. Database is defined as (A) The collection of data (B) The collection of records (C) The collection of interrelated data (D) The collection of logically interrelated data (E) Answer not known 182. A file which has more than one index, with a different key is known (A) Hashed file (C) Transaction file (D) Inverted file		(D)	Automatic buffering					
(A) Magnetic tape (B) Hard disk (C) Optical disk (D) Super disk (E) Answer not known 181. Database is defined as (A) The collection of data (B) The collection of records (C) The collection of interrelated data (D) The collection of logically interrelated data (E) Answer not known 182. A file which has more than one index, with a different key is known 183. A file which has more than one index, with a different key is known 184. A file which has more than one index, with a different key is known indexed file (C) Transaction file (D) Inverted file		(E)	Answer not known					
(B) Hard disk (C) Optical disk (D) Super disk (E) Answer not known 181. Database is defined as (A) The collection of data (B) The collection of records (C) The collection of interrelated data (D) The collection of logically interrelated data (E) Answer not known 182. A file which has more than one index, with a different key is known (A) Hashed file (B) Indexed file (C) Transaction file	180.	Whi	ich is considerably cheaper for sto	oring data?				
(C) Optical disk (D) Super disk (E) Answer not known 181. Database is defined as (A) The collection of data (B) The collection of records (C) The collection of interrelated data (D) The collection of logically interrelated data (E) Answer not known 182. A file which has more than one index, with a different key is kr (A) Hashed file (B) Indexed file (C) Transaction file		(A)	Magnetic tape					
(D) Super disk (E) Answer not known 181. Database is defined as (A) The collection of data (B) The collection of records (C) The collection of interrelated data (D) The collection of logically interrelated data (E) Answer not known 182. A file which has more than one index, with a different key is known 184. A file which has more than one index, with a different key is known (A) Hashed file (B) Indexed file (C) Transaction file		(B)	Hard disk					
(E) Answer not known 181. Database is defined as (A) The collection of data (B) The collection of records (C) The collection of interrelated data (D) The collection of logically interrelated data (E) Answer not known 182. A file which has more than one index, with a different key is known (B) Indexed file (C) Transaction file (D) Inverted file	•	(C)	Optical disk	•				
181. Database is defined as (A) The collection of data (B) The collection of records (C) The collection of interrelated data (D) The collection of logically interrelated data (E) Answer not known 182. A file which has more than one index, with a different key is known (A) Hashed file (B) Indexed file (C) Transaction file (D) Inverted file		(D)	Super disk					
 (A) The collection of data (B) The collection of records (C) The collection of interrelated data (D) The collection of logically interrelated data (E) Answer not known 182. A file which has more than one index, with a different key is known (A) Hashed file (B) Indexed file (C) Transaction file (D) Inverted file 		(E)	Answer not known					
 (B) The collection of records (C) The collection of interrelated data (D) The collection of logically interrelated data (E) Answer not known 182. A file which has more than one index, with a different key is known (A) Hashed file (B) Indexed file (C) Transaction file (D) Inverted file 	181.	Data	cabase is defined as					
 (C) The collection of interrelated data (D) The collection of logically interrelated data (E) Answer not known 182. A file which has more than one index, with a different key is known (A) Hashed file (B) Indexed file (C) Transaction file (D) Inverted file 		(A)	The collection of data					
(D) The collection of logically interrelated data (E) Answer not known 182. A file which has more than one index, with a different key is known (A) Hashed file (B) Indexed file (C) Transaction file (D) Inverted file		(B)	The collection of records					
(E) Answer not known 182. A file which has more than one index, with a different key is known (A) Hashed file (B) Indexed file (C) Transaction file (D) Inverted file		(C)	The collection of interrelated data					
182. A file which has more than one index, with a different key is kn (A) Hashed file (B) Indexed file (C) Transaction file (D) Inverted file		(D)	The collection of logically interrelated data					
(A) Hashed file (B) Indexed file (C) Transaction file (D) Inverted file		(E)	Answer not known					
(C) Transaction file (D) Inverted file	182.	A fil	ile which has more than one inde	ex, with a different key is known as				
		(A)	Hashed file ((B) Indexed file				
(E) Answer not known		(C)	Transaction file (Inverted file				
		(E)	Answer not known					

183.	Storage structure and access methods used by the database system in specified by special type of DDL is called as							
	(A)	Data storage and definition la	ıngu	age	:			
	(B)	Database language						
	(C)	Query language						
	(D)	Database language and query language						
	(E)	Answer not known						
184.		malization improves perfor undancy can lead to	man	ice	by	avoiding	redundancy,	
	(A)	Partial dependency	(B)	Co	onsist	encies	•	
	(C)	Inconsistencies	(D)	Tr	ansit	ive depend	dency	
	(E)	Answer not known						
185.	Which one of the following is correct if a relation 'R' is in 5 th Normal form?							
	(A) It can further non loss decomposed							
	(B)	B) 'R' is already in 3NF						
	(C)	C) 5NF design is always dependency preserving and loss less						
	(B)	By It cannot be further non loss decomposed						
	(E)	Answer not known						
186.		E-R model is intended primary for the database design process by allowing the specification of an enterprise						
	` '	Data	(B)	Sc	hema			
	(G)/	Scheme	(D)	Su	ıbsche	ema		
	(E)	Answer not known						

	(A)	Table	(B)	Relation			
	(C)/	Dictionary	(D)	Column			
	(E)	Answer not known					
188.	A term is that element of the system which contains data about data that is description of other data. What is that?						
	(A)	Object	(B)	Database			
	(C)	Cluster	(D)	Data dictionary			
	(E)	Answer not known					
189.	Application programs and terminal activities are not disturbed if any changes are made either in storage representation or access methods is known as						
	(A)	Logical data independence	(B)	Distribution rule			
	(C)	Physical data independence	(D)	High level data independence			
	(E)	Answer not known					
190.	In which design process multiple entity set are synthesized into a higher level entity set on the basis of common features?						
	(A)	Top-down					
	(B)	Generalization					
	(G)	Bottom-up					
	(D)	Specialization					
	(E)	Answer not known					

187. A clustered is similar to the mechanism used in

- 191. The lower level entity set membership is evaluated on the basic of whether or not an entity satisfies an explicit condition or predicate is known as
 - (A) Predicate condition defined
 - (B) User defined
 - (C) Condition defined
 - (D) Disjoined defined
 - (E) Answer not known
- 192. Our goals of database design with functional dependencies are
 - (A) BCNF, losslessness, dependency preservation
 - (B) 3NF, lossyness, preservation
 - (C) BCNF, lossyness, dependency
 - (D) BCNF, 3NF, Functional dependency
 - (E) Answer not known
- 193. Identify the following Rule, "if a Foreign key exists in a relation, either the foreign key value must match a candidate key value on tuple in its relation" it is called as which rule?
 - (A) Assertion Rule
 - (B) Relational model Rule
 - (C) Integrity constraints Rule
 - (D) Referential integrity Rule
 - (E) Answer not known

194.	LIK	E operator in oracle is used to find the
	(A)	Name
	(B)	Character
	(C)	Character using wild
	(D)	Wild character
	(E)	Answer not known
195.		ct distinct customer-name from borrower when customer name (Select customer-name from depositor). What is the able element for filling the dash?
	(A)	AS
	(B)	= .
	(G)	IN
	(D)	ALL
	(E)	Answer not known
196.	Wha	t is the serious problem in creating / using views?
	(A)	to express update, insert, delete with them
	(B)	to express copy of the original table
	(C)	to modify the original table
	(D)	to express another table name for table
	(E)	Answer not known
197.	Whe	n two entities are associated, it is called
	(A)	Unary
	(B)	Binary
	(C)	Ternary
	(D)	Degree
	(E)	Answer not known

198.	Who is incharge of designing, implementing and maintaining the database?							
	(A) Database manager							
	(B) Database server manager							
	(C) Database administrator							
	(D) Database designer							
	(E) Answer not known							
199.	Dependencies that are satisfied by all relations is called as							
	(A) Non-trivial dependency							
	(B) Functional dependency							
	(C) Multivalued dependency							
	(D) Trivial dependency							
	(E) Answer not known							
200.	function will find the location of the n^{th} occurrence string X in the string data starting from the position, S .							
	(A) SUBSTR (data, X, S, N)							
	(B) INSTR (data, X)							
	(C) INSTR (data X, S, N)							
	(D) INITCAP (data X, S, N)							
	(E) Answer not known							