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Register Number					

COMPUTER APPLICATIONS (Degree Standard)

Time Allowed: 3 Hours]

[Maximum Marks: 300

FACAD

Read the following instructions carefully before you begin to answer the questions.

IMPORTANT INSTRUCTIONS

- 1. The applicant will be supplied with Question Booklet 15 minutes before commencement of the examination.
- 2. This Question Booklet contains 200 questions. Prior to attempting to answer the candidates are requested to check whether all the questions are there in series and ensure there are no blank pages in the question booklet. In case any defect in the Question Paper is noticed it shall be reported to the Invigilator within first 10 minutes and get it replaced with a complete Question Booklet. If any defect is noticed in the Question Booklet after the commencement of examination it will not be replaced.
- 3. Answer all questions. All questions carry equal marks.
- You must write your Register Number in the space provided on the top right side of this page. Do not
 write anything else on the Question Booklet.
- 5. An answer sheet will be supplied to you, separately by the Room Invigilator to mark the answers.
- 6. You will also encode your Question Booklet Number with Blue or Black ink Ball point pen in the space provided on the side 2 of the Answer Sheet. If you do not encode properly or fail to encode the above information, action will be taken as per commission's notification.
- 7. Each question comprises four responses (A), (B), (C) and (D). You are to select ONLY ONE correct response and mark in your Answer Sheet. In case you feel that there are more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each question. Your total marks will depend on the number of correct responses marked by you in the Answer Sheet.
- 8. In the Answer Sheet there are four circles (A), (B), (C) and (D) against each question. To answer the questions you are to mark with Blue or Black ink Ball point pen ONLY ONE circle of your choice for each question. Select one response for each question in the Question Booklet and mark in the Answer Sheet. If you mark more than one answer for one question, the answer will be treated as wrong. e.g. If for any item, (B) is the correct answer, you have to mark as follows:

 $\triangle \bigcirc \bigcirc \bigcirc$

- 9. You should not remove or tear off any sheet from this Question Booklet. You are not allowed to take this Question Booklet and the Answer Sheet out of the Examination Hall during the time of examination. After the examination is concluded, you must hand over your Answer Sheet to the Invigilator. You are allowed to take the Question Booklet with you only after the Examination is over.
- 10. The sheet before the last page of the Question Booklet can be used for Rough Work.
- 11. Do not tick-mark or mark the answers in the Question Booklet.
- 12. Applicants have to write and shade the total number of answer fields left blank on the boxes provided at side 2 of OMR Answer Sheet. An extra time of 5 minutes will be given to specify the number of answer fields left blank.
- 13. Failure to comply with any of the above instructions will render you liable to such action or penalty as the Commission may decide at their discretion.

- - (A) trace

(B) sum of its principal diagonal

(C) determinant

- (D) product of its principal diagonal
- 2. "All humming birds are richly colored". For the above statement which quantifier can be used?
 - Universal

(B) Existential

(C) Uniqueness

- (D) Both universal and uniqueness
- 3. Let $A = \{1, 2, 3, 4, 5\}$, $B = \{1, 2, 4, 8\}$, $C = \{1, 2, 3, 5, 7\}$, $D = \{2, 4, 6, 8\}$. Find $A \cup (B C)$, (B C) D.
 - (A) $\{1, 2, 3, 4, 5, 8\}, \{2, 6\}$

(1, 2, 3, 4, 5, 8), ¢

(C) {1, 2, 3, 4, 5, 8}, {4, 8}

- (D) {4, 8}, ¢
- 4. Symbolize the following Socrates argument:
 - "All men are mortal. Socrates is a man. Therefore Socrates is a mortal" where H(x): x is a man, M(x): x is a mortal and s: Socrates.
 - $(x) H(x) \to M(x) \land H(s) \Rightarrow M(s)$
- (B) $(x)(H(x) \Rightarrow M(x)) \wedge H(s) \rightarrow M(s)$
- (C) $(x)(M(x) \rightarrow H(x)) \land M(s) \Rightarrow H(s)$
- (D) $(x)(M(x) \Rightarrow H(x)) \land M(s) \rightarrow H(s)$
- 5. Find the rank of the matrix $A = \begin{bmatrix} 1 & 2 & -1 & 3 \\ 4 & 1 & 2 & 1 \\ 3 & -1 & 1 & 2 \\ 1 & 2 & 0 & 1 \end{bmatrix}$.
 - (A) 4

(B) 2

(C) 3

- (D) 1
- 6. Which one of the following is the absorption law?
 - $p \lor (p \land q) \Leftrightarrow p$

(B) $p \land (p \lor q) \Leftrightarrow p \lor q$

(C) $p \Leftrightarrow p \lor p$

(D) $p \Leftrightarrow p \wedge p$

7. $y = x \frac{dy}{dx} + \frac{x}{dy/dx}$ is of degree

- (A) zero
- (C) three

- (B) two
- (D) one

8. The integrating factor of the differential equation $\sin x \frac{dy}{dx} + 3y = \cos x$ is calculated as

(A) $e^{\tan^3 x/2}$

(B) $\log \tan x/2$

 $\tan^3 x/2$

(D) $\tan x/2$

9. Which equations have each output signal is expressed as a Boolean function of its input signals?

(A) Graphical equations

B) Boolean equations

(C) Linear equations

(D) Non-linear equations

10. ——— circuits are referred to as "memoryless" circuit, because their output depends only on their current inputs and no history of prior inputs is retained.

(A) Combinational

(B) Sequential

(C) Algebraic

(D) Boolean

11. Which map is a convenient way of representing a Boolean function of a small number of variables?

- (A) Algebraic simplification
- (a) Karnaugh map

(C) Quine-McClaskey

(D) Boolean expression

12. Which logic gate have this following truth table?

A	В	Output
0	0	0
0	1	i
1	0	1
1	1	0

- (A) NOT
 - NOR

- (B) NANI
- XOR

13.	m m	amirame computers, ———	— h	rogra	III 1	s known as initial program	loader.
	W	Bootstrap		(B)	Job control	
	(C)	Input/output		(D)	Supervisor	N.
14.		th of the following types of soft documents?	ware	shoul	ld y	ou use if you often need to	create, edit and
,	JAN S	Word processing		(B)	Spreadsheet	
	(C)	Unix		(D)	Desktop publishing	
15.	Remo	ote computing services involve	the u	se of t	time	esharing and	
	(A)	Multiprocessing		(B)	Interactive processing	
,	C	Batch processing		(D) .	Real time processing	
	4 4		*				
16.	Whic	ch program merges many object	mod	ules?			
*	(A)	Compiler	1	(B)	Interpreter	
	(C)	Loader		V	7	Linker	
17	A -4	:fl:t	ah a na	atan i	a lev	10WM 00 0	
17.		ing of bits used to represent a	cnara		s кі В)	nibble	
	(A)	bit			- 50		
		byte		. (.	D)	carriage return	
10	1171	4 : 41 - 1 £ 17 : 0'	1		,		± 3 H
18.		t is the value of 17, using 9's co	mpie	ment		82	
	(A)	72	340		5)		
	(C)	92		(.	D)	102	
					15		
19.	Whic	th gate has the following truth	table'	?			
10.			A	В	0	utnut	
		1771	0	0	-0	utput 0	
	E.		0	1	2	0	
			1	0		0	
			1	, U,		U	

(B) OR

5

NAND

What will be the output of following program? 20. #include <stdio.h> void main() int a=10, b=6; if (a=3) b++; printf ("%d%d", a, ++b); 108 107 (A) (C) 37 What is the value assigned to the variable X if b is 7? 21. X = b > 8? b << 3 : b > 4? b >> 1 : b;28 (D) 14 initializes a new object to be a duplicate of a previously defined source object. 22. parameterized constructor default constructor (B) (A) (D) destructor copy constructor 23. What will be the output of following program? #include <stdio.h> void main()

(A) -1 (B)
(C) 4

24. What will be the output of following program?

int a=4, b=5;

printf ("%d", (a>b)?a:b);

#include <stdio.h>
void main()
{
 char *s="BIRD";
 char s1="BIRD";
 printf ("%d%d", sizeof(s), sizeof(s1));
 }

(A) 15
(C) 14
(D) 24

25. What will be the output of the following program? #include<stdio.h> #include<string.h> void main() char s[20] = "C programming"; printf("%d", strlen(s)); (A) 10 (B) 11 12 (D) 13 What will be the output of the following program? 26. #include<stdio.h> void main() char c = 125; c = c + 10;printf("%d", c); }. 135 (A) (C) · 121 27. Which of the following is correctly matched? - Can be accessed from within a class. I. Private Data Members II. Protected Data Members - Can be accessed from anywhere only. III. Public Data Member Can be accessed from derived classes. I only (B) I and II (C) I and III (D) II only is accessible by the member function within its class 28. A member declared as and any class immediately derived from it. Private (A) (B) Public Protected (D) Default The _____ keyword is used to prevent direct access of member variables or 29. function by the object. Private Protected (B) Public (C) (D) Inline

30.	The -	model is based on the	undan	nental ideas proposed by E.F. Codd.
	(A)	Network	(B)	Object oriented
	(C)	Hierarchical	·	Relational
0.1	3371 .	1. file fellowing is not an output do	wise of s	acomputor?
31.		ch of the following is not an output de	(Company)	
	(A)	Printer	(B)	VDU
	(C)	CRT		Keyboard
191			*	
32.		consists of specialized]	program	s, usually running on dedicated server
	whic	h are configured to examine and filte	r netwo	rk traffic.
7	(A)	Proxy server	(B)	Cryptography
	(C)	Middleware	LOP	Firewall
33.	The	term FTP stands for		
	(A)	Function Transmission Procedure		
	(B)	File Transmission Procedure		
	100	File Transfer Protocol		
	(D)	Fund Transmission Protocol		New York
	()			
34.	Expa	and WAIS		
	(A)	Web Application Information Syste	m	
	0	Wide Area Information Server		7
* 1	(C)	Wide Area Information System		
	(D)	Web Application Information Serve	er	
35.	In R	SA cryptography algorithm the acron	ym RSA	stands for
	(A)	Rodrigues, Stephen, Andrews		a road to the contract of the
	(B)	Rodrigues, Shamir, Abraham		
	(C)	Rivest, Shamir, Abraham		
	100	Rivest, Shamir, Adleman		

	(A)	Off-line Transmission Protocol	(B)	On-line Transaction Protocol
	101	On-line Transaction Processing	(D)	On-line Transmission Processing
37.	The	report provides a few o	of the	critical statistics from the preceding day's
	opera	ating activities to the managers on daily		
	(A)	Periodic	(3)	Key-Indication
	(C)	On-call	(D)	Exception
9				
38.		measurement of the number of custom ces from a company is called	ners v	who stop using or purchasing products or
	(A)	Competitive rate	(B)	Services rate
13	- 30 05	Firm rate	(1)	Churn rate
	(C)	Firm rate	(1)	Churi Face
* *				
39 .	In —	normal form, no non-key	field	may pertain to another non-key field.
	(A)	First	(B)	Second
. 1	(0)	Third	(D)	Fourth
40.	An u	insolicited commercial e-mail is called a		
	(A)	Worm	(B)	Trojan
$\pi_{k_{\alpha},\lambda}$	10	Spam	(D)	Virus
41.	Poin	t out the wrong statement in the follow	ing	
41.		Electromagnetic waves ranging between		kHz = 1 GHz called radio waves
	(A)	Waves ranging in frequencies between		
	(B)	Infrared waves with frequencies from		
	(C)	At the same of the		3 kHz - 1900 THz used for wireless
100		communication spectrum, ranging	HOII	1 5 MILZ - 1500 IIIZ used for wheless

36.

The abbreviation OLTP stands for

42.		ne wave is offset 1/6 cy ans?	cle with resp	ect to	time 0. What is its pha	ase in degrees and
	Taul	60° and 1.046 rad		(D)	650 and 1 046 and	
	(0)		ă .	(B)	65° and 1.046 rad	
	(C)	60° and 1.251 rad	4.	(D)	65° and 1.251 rad	* *
1.4			8	*		
43.	MPI	EG-2 is related to				
	(A)	International Standard	d 11172	(3)	International Standard	13818
	(C)	International Standar	d 11175	(D)	International Standard	13188
	**					
	2			. "		
44.	Who	developed the Petri Net	Model?			Territoria
	1	Danthina		(B)	Floyd	
	(C)	Jacobson		(D)	Kanakia	
	(0)	0.000000		(15)	Kanakia	

45.	Whic	ch year improved mobile	telephone syst			
, ,	(1)	1960		(B)	1961	,
	(C)	1962		(D)	1959	
						*
		, at				
46.		communication usually	y take place	over n	nedia that are specifica	ally setup for the
	netw	ork and are known as —	-	media.		
	(A)	Committed		(B)	Devoted	40
	VO	Dedicated	8	(D)	Data transfer	
	ve.					
47.	Whic	h one is an example for h	nybrid networl	k?	3.8	
	(A)	LAN		(B)	PAN	
	(C)	WAN		D	CAN	

48.		hich technology the inw letely received by the no		sion o	f a message at a node starts before it is
,	1	Cut-through switching		(B)	Store and forward switching
	(C)	Packet switching		(D)	Token management
w . w					
			- 9		
49.	How	many channels can a coa	axial cable carı	ry?	
	(A)	5,000		100	5,500
100	(C)	50,000	ur B	(D)	6,500
				*	
50	What	t is the propagation time	e if the distance	ce bet	ween the two points is 12000 km? Assume
50.	100	ropagation speed to be 2			
	(A)	60 ms		(B)	70 ms
	(C) -	40 ms		200	50 ms
51.	Whic	h computing is embedde	d into everyda	v life.	as in the vision of Mark Weiser?
01.	(A)	RFID		(B)	Mobile computing
	(21)	Ubiquitous computing		(D)	
* 1		c siquitous compating		(2)	
70	3377	1 1 1 1 1 1 1 1 1 1	-11 (of all	l data	hasse on the commons for concerning storage
52.	space		all users of al	1 data	bases on the servers for conserving storage
	(A)	Sybdiag database		(B)	Sybsecurity database
	(C)	Tempdb database	e e	(D)	dbccdb database
3.6		. V 4.			
1					
5 3.	Data	items grouped together	for storage pu	rposes	are called
	4	Record	8, 1	(B)	Title
	(C)	List		(D)	String

54.	VVIIC	o is responsible for storing, retrieving	and upo	lating the data in the database?
	V	Storage Manager	(B)	Query Processor
	(C)	Database User	(D)	System Manager
			* * 1	
55.		——— data manipulation language	e require	e a user to specify what data are needed
	with	out specifying how to get those data		and all all and all all all all all all all all all al
	(A)	Explicit	(B)	Implicit
	(C)	Procedural	JOHN STATE OF THE	Non-procedural
				P 9 4 4 4 4 1
56.	Whie	ch one describes the database design	at the pl	hysical level?
	(A)	Logical subschema	(B)	Physical subschema
	(C)	Logical schema	(D)	Physical schema
	···			Thy oreat schema
57.	exter	——— have an ability to change the rnal schema.	ne inter	nal schema without having to change the
	(A)	Logical data dependence	(B)	Logical data independence
	(C)	Physical data dependence	(B)	Physical data independence
	(0)	1 hysical data dependence		I hysical data independence
58.	view		scribes t	the records and relationship existing in the
~	(A)	Data diagram		Scheme
	(C)	Abstraction	(D)	
	(0)	Abstraction	(D)	Gist
59.		hich data model, the underlying as The data model is difficult to comp		on is one child can have more than one
	1	Network	(B)	Hierarchical
	(C)	Relational	(D)	Object oriented

60.	In M	S-Access ———— is essential for el	limina	ting redundancy in specified field.
	40	Primary key	(B)	Foreign key
	(C)	Check constraints	(D)	Auto increment
61.	In M	S Access — allows you to view	w data	a as a table.
	(A)	Print View	(0)	List View
	(C)	Slide View	(D)	Outline View
62.	Ident	tify the Desktop publishing software us	sed for	page layout purpose.
	45	Page maker	(B)	Flash
	(C)	Paint brush	(D)	Power point
*				
63.	Page	s published on the web, using special for	ormat	ting language is called
	(A)	XML	(B)	WML
	(C)	UML	10)	HTML
64.		graphics files have been special	lly cre	ated for use in desk top publishing.
	(1)	Clip art	(B)	Word art
·	(C)	Template	(D)	Framework
65.		guides the user through the p	rocess	of creating a presentation by asking some
. No	quest	tions and designs the complete power p	oint p	resentation.
,	12	Auto content wizard	(B)	Template
0.15	(C)	Blank presentation	(D)	Design view

66.		emaining col							ne selected	d range	into all
,	4	Edit → Fi	ll → right	•		(B)	Edit →	Fill → le	ft		
	(C)	Edit → Fi	ll → up		5 1 5	(D)	$\mathrm{Edit} \to$	Fill → d	own		
	*										
67.	Amo	ng the follow	ing operat	ors, which	one h	as hig	hest prior	ity:(),/	+, *		
	(A)	+		3		(B)	*				
	10	()				(D)	,				
1											
68.		kev i	s used to e	rase one o	r more	char	actors loft	of the in	sertion no	int	
00.	(A)	delete	s usea to e	rase one o	1 more	(B)	insert	or the m	sertion po	1116.	
	(C)	ctrl				(B)	backspac	10			
	(0)	CUIT				(Co	backspac	.e			
											*
		4 7. IN			E 1						
69.	and e	every person			s you	to qui	ckly produ	ace a per	sonalized	letter fo	or each
	(A)	Document		illing not.		0	Mail mer	·σο			
	(C)	Mail split	merge		•	· (D)	Merge ar				
	(0)	man spire				(D)	wierge ar	ia spiic			4
				(Kerl Adams	OF 1961						
70.		ord application in					it to clipb	ooard, an	nd removi	ng it fr	om its
	(A)	Ctrl-C				(B)	Ctrl-V				
,	C	Ctrl-X				(D)	Ctrl-P				
				1				*			
71.	and c	allow	s you to p	perform va	arious	opera	tions on f	iles and	folders su	ich as r	noving
	(A)	Taskbar			11.00	(B)	Status ba	ır			
		Explorer				(D)	My comp				
211	,	P				(2)	and comp				

72.	MPE	G-2 is the ———— compres	sion standard	required for making DVDs.
	(A)	frames	(B)	images
	VA	video	(D)	audio
	4 5			
73.	Proce	ss of converting a sound wave i	nto numbers	as bits and bytes in known as
	(A)	Modulation	(8)	Digitizing
	(C)	Compiling	(D)	Converting
74.	Comr	ression Technique used in Aud	io is	
	(A)	Differential Encoding	10 10	
	(B)	Transformation Encoding		
	(C)	Entropy Coding		
		Differential and Transformati	on Coding	
		Differential and Transformati	on country	
500				
75	Due 4	- 1		de land
<i>7</i> 5.		o lossy compression, some of th		is lost.
-	(A)	network	(B)	complexity
		data	(D)	storage
	4.4			
76.	Which	one of these is a video file?		
	VI	frogs.avi	(B)	horse.jpg
, i.,	(C)	cat.mp3	(D)	all of the above
77.	-	video is transferred thro	ugh fire wire.	
	(A)	analog	(8)	digital
4	(C)	bit mapped	(D)	digitized
		9 19		

78.	MIDI	stands for					300
	(A)	Memory Interl	eaved Device In	dependent		*	
٠,	00)	Musical Instru	ment Digital In	terface			
	(C)	Musical Instru	ment Device In	termediate	80 200 10		
	(D)	Musical Instru	ment Device In	terface			
					2	*	
79.	Time	independent me	edia such as tex	t and image	are classified as		
,	(1)	Discrete media		(B)	Continuous med	lia	
	(C)	Captured medi	a	(D)	Synthesized me	dia	8
80.	Progr	rams used to add	surface to the	wire frame to	give image body	and solidit	v is called as
00.	(A)	Inverse kinema			Shaders		
	(C)	Anti-aliasing		(D)	Animation		
	(-)			A	*		
81.		imagaa ay	a farmed from a	matrix of ni	xels with differen	t coloure	***
01.	(A)	Vector	e formed from a	matrix of pr	Bitmap	colours.	
	(C)	Quicktime		(D)	CAD		
an entit	(0)	Quicktime		(D)	CILD		d .
				7	an a		*
82.		h of the followin					
	(A)	<title> -</td><td></td><td></td><td></td><td>1 1</td><td>9</td></tr><tr><td></td><td>(B)</td><td><META> -</td><td></td><td>and the second second</td><td>provide informati</td><td>on about d</td><td>ocument</td></tr><tr><td></td><td></td><td><BASE> -</td><td>It specifies a</td><td></td><td></td><td>* 1</td><td></td></tr><tr><td></td><td>(D)</td><td><STYLE> -</td><td>It encloses sty</td><td>le specificat</td><td>ions</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.0</td></tr><tr><td>83.</td><td>The -</td><td>tag s</td><td>pecifies where in</td><td>n a text it wo</td><td>uld be ok to add a</td><td>line-break</td><td></td></tr><tr><td></td><td>(A)</td><td><SBR></td><td></td><td>V</td><td><WBR></td><td></td><td></td></tr><tr><td></td><td>(C)</td><td>
</td><td></td><td>(D)</td><td><SOFT></td><td></td><td></td></tr><tr><td></td><td></td><td>161</td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table></title>					

04.	VV III	en of the	tottowi	ng is an	auton	iatic respon	se to	an email?		
	(A)	Quick 1	reply				D	Mail bot		
	(C)	Mail Re	ep				(D)	Mail Res		
										,
	8									
85.	Whic	h of the t	followi	ng feati	re tha	t save typin	o wh	en email mes	sage is comp	osed?
	(A	Station		ng react	ac ma		(B)	Rich text	sage is comp	oscu.
,	(C)	Unenco					(D)	Bin hex		
	(0)	Onence	ding				(D)	Din nex		
	21									
86.	Whic	h of the f	followi	ng regai	rding e	mail addres	ss is 1	not correct?	* * *	
,	(A)	Email a	addres	s is case	sensit	tive	10 50 (1)			-
	(B)	Email a	addres	ses do n	ot have	e punctuation	on m	arks		
	(C)	Email a	addres	s has tw	o mair	n parts – Us	serna	me and doma	in name	
	(D)	Email a	address	s may b	e enclo	sed within a	angle	brackets <>		
							. 1			
	1		7:			. 6				
87.	Whic	h of the	followi	no ie a /	lietribi	ited evetem	ofir	sterlined nage	es that includ	le text, picture
01.		d and oth		1.75		ated System	OI II	recrimed page	es that mered	ie text, pietur
	(A)	Use net		1		((B)	Voice and vid	leo conferenc	ing
	(C)	File tra	nsfer			4	D	www		
				8 9						
						9				
			V 12					3		
88.		th the foll		:		G. 61	.1		c 1	. ,
		Mail ser			1.			can be trans		
	(b) (c)	Web clie FTP serv			2. 3.			board for on ning and out		* *
	(d)	IRC serv			4.	Browser	111001	ning and out	going man	
	(4)	THE SELV	01			Drowser	•			
		(a)	(b)	(c)	(d)					
	(A)	3	1	4	2	1				
1	(3)	3	4	1	2					
	(C)	3	2.	1	4				0.18	
× 0	(D)	4	3	2	1					

- 89. $\frac{d}{dx}F(x) = f(x) \text{ then}$
 - $\int_{a}^{b} f(x) dx = F(b) F(a)$ (C) $\int_{a}^{b} f(x) dx = F(a) + F(b)$

(B) $\int_{a}^{b} F(x) dx = f(b) - f(a)$ (D) $\int_{a}^{b} F(x) dx = f(a) + f(b)$

- Which of the following functions is positive for all X? 90.
 - $\cos(\sin x)$

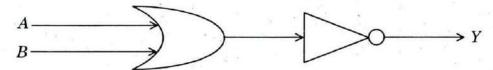
(B) $tan(\cos x)$

(C) $\cos(\tan x)$

- (D) $\log(\tan x)$
- Convert the decimal number (67)10 to its equivalent octal number? 91.
 - (A) $(100)_8$

(C) $(109)_8$

- $(99)_{8}$
- 92. What is the Boolean equation for the given diagram?



Y = AB

 $Y = \overline{AB}$ (C)

- If an array is declared as float arg []= {10.0, 20.0, 30.0, 40.0} then what is the address of arg [2]? (base address = 1000)
 - (A) 1002

(B) 1004

(D) 1012

94.		hich data model, the rela ng the attributes of an en			file and the second sec	
	(A)	Network	(B	3)	Hierarchical	
	(C)	Semantic		-	Relational	
. * .						
95.	A rel	lationship may also have	descriptive			
	(A)	Entity	V)	Attributes	
	(C)	Mapping	(D)) .	Cardinalities	
96.	The	primary functions of a de	sk top publishing	pro	gram is	
١.	- Carp	Layout pages	(B	3)	Word processing	
	(C)	Statistical calculation	(D))	Presentation	
97.	The	cell reference for cell ran	ge of $G2$ to $M12$ i			Sheri
	(A)	G2.M12	(B	3)	G2;M12	
3.77	VO)	G2: M12	(D))	G2 - M12	
. 13						
98.	Find	the odd man out		_		
	(A)	Animation	· · · · · · · · · · · · · · · · · · ·	5)	Voice script	
	(C)	Audio	(I	0)	Video	
			4.4			
99.	Tran	sportation of data is easi	ier due to	_		
	(A)	Decompression			Compression	
	(C)	Transmission	(I))	Pixel	

	(A)	3		(B)	4		
	(C)	6		D	8	***	
101.			ree sisters of a fa ted if all the siste			or a photograph. I	n how man
- 6	V	720		(B)	600		
	(C)	480		(D)	360		
		4.					
					*		
102.	no. c		nts, 12 have taker have taken Mat s.				
•	(1)	13, 9		(B)	12, 8		
	(C)	13, 4		(D)	12, 9	4 1 2 124	
			*				
				•6			
103.	A bir	nary relation R in	n a set P is called	a partial or	der relation i	n P iff R is	
	(A)	Reflexive, sym	metric, transitive	(3)	Reflexive, a	ntisymmetric, tra	nsitive
	(C)	Irreflexive, syn	nmetric, transitiv	e (D)	Irreflexive,	antisymmetric, tr	ansitive
				229			
	1						
	Q .	1:1 0:1 0:1					
104.		which of the fol					
2 32	I.	and the same of th	hich is irreflexive			e transitive.	
	II.		d < are both irrefl		ransitive.		
	III.		ng a mother is tra		TT 1		
	(A)	I only		(B)	II only		
	(C)	III only		Last Contract of the Contract	I, II		- 8
			3- 0.7 4				
105.	A 001	Jana matrix A ia	singular iff				
100.	Asqu	uare matrix A is		è			
•	(D)		n values is zero	1 1	To t		3 *
	(B)		alues are nonzero		t		
	(C)		alues are nonzero			4 9 8	
141	(D)	one of the eiger	n values is nonzer	o and uniq	ue		

100. Find the no. of subsets of a set of order 3.

- 106. Which of the following connective is symmetric, associate and distributive?
 - V (exclusive OR)

(B) ↑ (NAND)

(C) \downarrow (NOR)

- (D) \Rightarrow (implication)
- 107. State which of the following is true.
 - I. Substitution instance of a tautology is a tautology.
 - II. $P \to Q \Leftrightarrow (\neg P \lor Q)$.
 - III. $\neg (P \land Q) \Leftrightarrow (\neg P \lor \neg Q)$.
 - (A) I, II only

(B) II, III only

(C) I, III only

- I, II, III
- 108. Let p: It is below freezing and

Let q: It is snowing.

Write the compound proposition in symbolic form:

"Below freezing is a necessary condition for it to be snowing".

(A) $p \rightarrow q$

(B) $\sim p \rightarrow \sim q$

(C) $p \rightarrow \sim q$

 $q \rightarrow p$

- 109. $\int (\tan x + \cot x) \, dx \text{ equals}$
 - $\log(c\tan x)$

(B) $\log(\sin x + \cos x) + c$

(C) $\log cx$

(D) none of these

- 110. $\int \frac{e^x + e^{-x}}{e^x e^{-x}} dx$ is equal to
 - $\log(e^x e^{-x})$

(B) $\log(e^x + e^{-x})$

(C) $\log \sinh x$

- (D) $\log \cosh x$
- 111. If α and β are the roots of $4x^2 + 3x + 7 = 0$, then the value of $\frac{1}{\alpha} + \frac{1}{\beta}$ is
 - (A) $-\frac{3}{4}$

(6) -3

(C) $\frac{3}{7}$

(D) $\frac{7}{4}$

112.		gnated as $+\infty$ or $-\infty$.	onent exceeds	the n	maximum possible exponent value, it may be
	. (4)	Exponent overflow		(B)	Exponent underflow
	(C)	Significant underflow		(D)	Significant overflow
	(0)	, organicant anacriton		(D)	Significant overnow
113.		vo numbers are added, ar	nd they are b has the oppos	oth p	positive or both negative then ————————————————————————————————————
2 11 1	LAY.	overflow		(B)	underflow
	(C)	fixed-point		(D)	floating point
		*			
114.		set, when more t	han one proce	ss sh	ares a page.
	(A)	Age		(B)	Modify
	(C)	Protect		90)	Copy on write
	αÏ				
115.	repla	policy considers	s all unlocke	d pa	ges in main memory as candidates for
	(A)	Local replacement		10)	Global replacement
	(C)	Fixed allocation		(D)	Variable allocation
116.	refer	algorithm select	s for replacen	nent	that page for which the time to the next
	(A)	Least Recently Used (LF	RU)	(B)	First-in-First out (FIFO)
	(C)	Optimal		(D)	Clock
117.	If the	e present bit is not set, to s fault is called	hen the desire	ed pa	ge is not in main memory and a memory
	VI	Page fault		(B)	Segment fault
	(C)	Memory fault		(D)	Input/output fault
			300		
,		A		*	
118.	Whic	h program do housekeepir	g chores such	as C	OPY, ERASE, DIR, etc.?
,	(U)	Utility programs		(B)	User programs
	(C)	Server programs		(D)	Application programs

119.	The	term s	um-of-pr	oducts 11	i Roote	an algebra i	neans				
	(A)	The .	AND fur	iction of	severa	l OR functio	n .				
	O	The	OR func	tion of se	veral A	AND functio	n				
	(C)	The	OR func	tion of se	veral (OR function					
	(D)	The	AND fur	nction of	severa	l AND funct	ion			N = 4	
	3.	8 8	\$ P							83	
120.	If or	AND	anto has	7 innuts	how	many input	words are	there in it	s truth ta	ble?	
120.		16	gate nas	' Inputs	s, now i		B) 32	uncie in i	o cr don co		
	(A)						128				
	(C)	64	i.				. 120				
										· .	
				104.5						in the second	
121.	Mat	ch the	following	g:							
	(a)	Stora	ge specif	fier	1.	unsigned					
	(b)	Type	specifier		2.	switch ca	se				
	(c)	Cond	itional s	tatement	3.	for	100				
	(d)	Iterat	tive state	ement	4.	extern					
		(a)	(b)	(c)	(d)			** ·			
	1	4	1	2	3					:0	*
	(B)	2	1	3	4	2 1					
-	(C)	4	1	3	2				E		
	(D)	1	4	2	3						¥**
	•								400		
					E						
100	3371	, cu	C 11			-11iu a fina	doclaratio	no io truo	2		
122.				ing abou	it the ic	ollowing two	declaratio	ons is true	100		
	I.	int *							2	· ·	
1,4	II.		*F)()								
	(A)		are ide								
	(B)	•				second is wr					
	400	The	first dec	laration	is a fu	nction retur	ning a poin	ter to an	integer an	d the sec	ond is a

Both are different ways of declaring pointer to a function

pointer to function returning int

(D)

- 123. A function calls itself is called a (A) inline function static function (C) friend function recursive function 124. floor(x) function returns (A) smallest value greater than or equal to x (B) smallest value greater than x largest value less than or equal to x(D) largest value less than x Which of the following statement regarding operator overloading is not correct? 125. (A) Only existing operators can be overloaded The basic meaning of an operator cannot be changed (B) Some operators cannot be overloaded (C) Friend function can be used to overload all operators 126. The scope resolution operator is used for (A) Arithmetic operations Relational operations (C) Local variable Global variable 127. What will be the output of the following program?
- #include<stdio.h>
 void main()
 {
 int a, *p;
 a = 9;
 p = sa;
 a++;
 printf("%d", *p);
 - (A) 9
 - (C) 11

- (B) 10
- (D) Error

128.	Dyna	imic memory management function	ns are den	ned in ———— neader me.
	(A)	stdio.h	VDY	stdlib.h
	(C)	conio.h	(D)	stdallo.h
129.	A poi	inter variable of type —	— cannot	be dereferenced.
	(A)	int*	(B)	char*
,	10	void*	(D)	float*
130.		return type cannot retu	ırn any val	lue to the caller.
	(A)	int	(B)	float
,	4	void	(D)	double
131.	E/M :	analysis stands for		
	(A)	Efficiency/Means Analysis	(B)	Ends/Mode Analysis
	100	Ends/Means Analysis	(D)	Efficiency/Mode Analysis
	¥ ,			
132.	Whic	ch technique is widely used in acad	emic testir	ng?
5	(A)	MICR	(B)	POS
	(0)	OCR	(D)	MOR
133.	The t	third generation of computers have	used	
	(A)	Electronic valves	(B)	Integrated circuits
	(C)	Transistors	(D)	Vaccum tubes
134.	Wha	t is a mechanistic system?		
	- COMP	A system which seldom interact output	ts with its	environment to receive input or generate
	(B)	A system mechanises all input a	nd output	from its environment
	(C)	A system which is very much ad		
	(D)			conment and its input and output
	11.0	grammer and the state of the st		

135.		ernative decisions can result in more than obabilities of occurrences can be identified is	one outcome. The possible outcome and their called
	(A)	Decision making under certainty	
٠,	0	Decision making under risk	
	(C)	Decision making under uncertainty	
	(D)	Decision making under no risk	
4 ₀ , "			
136.	SPSS	SS stands for	
. 100	(A)	Systematic Program for Statistical System	ns
p. 41.5	(B)	Statistical Program for Systematic Soluti	
	JA.	Statistical Package for Social Sciences	
•	(D)	Statistical Package for Scientific Systems	
107			
137.	by the	he user from a concept hierarchy.	f data at whatever level of detail as desired
2	(A)	Drill-Out	Drill-Down
	(C)	Down-Drill (D)	
	\/		Dim op
-	1		
138.	produ	is a category of information sys luction process are automatically done by con	tem in which decisions adjusting a physical
	(A)	Process Control Solution	inputers.
	(B)	Process Communication System	
	Jan Salar	Process Control System	
	(D)	Product Control System	
139.	nasses	es from one entity to the next across the sup	ation about the demand for a product as it
10	(A)	Bear whip	Bull whip
	(C)	Cow whip (D)	Buffalo whip
	(5)	(D)	Dunalo willp

140.	Mate	ch the fo	ollowing	:								
	(a)	802.11	91		1.	54 Mb	ps					
	(b) .	802.11	b .		2.	450 M	bps					
	(c)	802.11	a/g		3.	11 Mb	ps					
	(d)	802.11	n		4.	1 Mbp	s			11. 6		
	. 3		4.	()	. (1)							
		• (a)	(b)	(c)	(d)							Š-
	(P)	4	3	1	2				,			
	(B)	4	1	3	1							
*	(C)	3	2	4	. 1			X 1907				
1.5	(D)	2	4	1 .	3			*				
											197	
141.	Whie	ch proto	col is us	ed to re	trieve e	email fro	om mai	l server?				
	(A)	SMTF)				(B)	FTP				3
	(C)	NNTH					100	POP	* 1	4 55		
	, ,										W 12	
					· v							
									- 14			
142.	Whie	_	ed to con	trols th	ne usage	e of spec	trum ir	radio acce	ess netwo	rk?		
V	(11)	RNC					(B)	GGSN				
	(C)	RAN	- 1				(D)	GPRS			9676	
												P.
			2									
		IODNIEW						Tital La			-c T	2T 11
143.		ocompu			ompute	er was	given	a little bro	otner, co	nsisting	or an La	31-11
-			r farm				(B)	WIMAX				
	(A)			1			(13)	Fuzz ball				
	(C)	Senso	r Netwo	ork				ruzz ban		2.		
							w. 1					
144.			— net	work h	ave a	single c	ommun	ication cha	annel tha	at is shar	ed by all	l the
	macl	hines on						ж				
-	(4)	Broad	lcast	9.2%			(B)	Unicast				
6	(C)	Point-	-to-poin	t			(D)	Peer-to-P	eer			
											-1	

	(A)	Symmetric DSL		(B) Asymmetrical DSL	* - 1
	(C)	High-bit-Rate DSL	s ar	(D) Low-bit-Rate DSL	
					18
146.	Mat	ch the following:			
	(a)	The Data link layer	1.	Transmitting raw bits	
	(b)	The presentation layer	2.	Dialog control	
	(c)	The physical layer	3.	Syntax and semantics	
	(d)	The session layer	4.	Data frames	
	1 4	(1) (1) (1)			
	-/41	(a) (b) (c) (d)			
	(A)	4 1 3 2			
	(3)	4 3 1 2			
	(C)	3 4 2 1			
	(D)	2 3 1 4			
147.		allows the remo	ote wo	rkers see and interact with a graphical	computer
	scree			a graphical	computer
	(A)	email	*	(B) Web page	
	(C)	Face book		Desktop sharing	
190	(0)	Tace book		Desktop sharing	
4					
148.	Ever	y layer needs a mechanism fo	or iden	tifying the senders and receivers that are in	volved in
	the p	particular message is called			
	(i)	addressing			
	(ii)	routing			
	(iii)	naming	1		
	(iv)	protocol layering			
				M 200	
	(A)	(i)		(B) (ii)	
1	C	(i) and (ii)		(D) (iv) and (ii)	
	en v La en S				

145. Find out the wrong statement for types of DSL technology.

149.	-	——— database cannot be expanded	onto an	y other devices.
	(A)	Owner	(0)	Master
	(C)	Temporary	(D)	Subsidiary
150.	-	defines database objects.		
	(1)	DDL	(B)	DML
1.	(C)	DBMS	(D)	DBA
151.	Whic	ch of the following is not a relational d	atabase	es?
	(A)	dBASE IV	(B)	4 th Dimension
	(C)	Foxpro	VO)	Reflex
	1 8 8			
152.	Whice relat		les that	are in one relation but are not in another
	(A)	Union	(B)	Projection
	(C)	Select	VOY	Set difference
153.	Whic	ch symbol represents an entity set in a	an E-R	diagram?
	(A)	Diamonds	(B)	Ellipse
	(0)	Rectangle	(D)	Lines
100				
154.		——— is defined as the number entir	ties to v	which another entity can be associated via a
	relat	cionship set.		
,	1	Cardinality ratio	(B)	Participation constraints
6.5	(C)	Recursive relationship set	(D)	Descriptive attributes

155.	An e	ntity set that does not possess sufficien	t attr	ibutes to form a primary key is called
	1	Weak entity set	(B)	Strong entity set
	(C)	Subordinate entity	(D)	Relationship set
156.		hich mapping cardinalities, an entity in ntity in B is associated with atmost one		associated with atmost one entity in B, and y in A?
	1	One-to-one	(B)	One-to-many
	(C)	Many-to-one	(D)	Many-to-many
157.	The o	degree of relationship is called		
	(A)	Specialization	(10)	Cardinality
	(C)	Generalization	(D)	Sharability
158.	Whic	h language supports the calculation an	d upd	ation of database objects?
	(A)	Data Definition Language	(3)	Data Manipulation Language
	(C)	Object Description Language	(D)	Schema Definition Language
159.	Who	controls the operational data?		
\	4	Database Administrator	(B)	Database Operator
	(C)	Database Manager	(D)	Database User
160.		h database is one that is congruent lasses?	with	the data defined in object classes and
	(A)	Hybrid	(B)	Relational
	(C)	Procedure oriented	D	Object oriented
	SI U			

161.	MS-	Access is a				
	Jun 1	Database Tool		(B)	Web page Tool	3.5
	(C)	Programming 7	Γ ool	(D)	Layout Tool	
162.					ng rows in table Y, but	a row in table Y can
	(A)	One-to-one		LON	One-to-many	
	(C)	Many-to-one	1 (a) (b)	(D)	Many-to-many	
			8 (9)			
163.		tify the logical fu lyou specify	nction that lets y	you compare	e the contents of a cell	address to a value or
•	(A)	= COUNT()			= MAX()	
	(C)	= MIN()			= IF()	
- st					•	
				W		
164.	Nam	e the chart-type	that pictorizer re	lative impo	rtance of data values o	over period of time
`	(4)	Area		(B)	Bar	
	(C)	Column		(D)	Line	
						The same of

165. The process of entering a formula in one worksheet that refers to numeric data in another worksheet is called

(A) 3D-Zooming

(B) 3D-Shearing

3D-Spearing

(D) 3D-Moving

166. Σ is a — tool.

(A) Auto correlate

(B) Auto average

(C) Standard deviation

Auto sum

167.	. The desk top contains sma'l pictures which represent the different programs that ar installed in the PC. These pictures are called					
	(A)	Images	1.1	(B)	Cursor	
	VO	Icons		(D)	Files	
			* 7			
168.	Which of da		olications is u	seful for s	toring, sorting and retri	eving large amoun
	(A)	Word processing		(B)	Paint	
	(C)	System			Database	
						· Programme
169.	The o	delay that occur durin	g the playbac	k of a stre	am is called	
	(A)	Stream delay		(B)	Play back delay	
	10	Jitter		(D)	Event delay	
170.	Each	individual measurem	ent of a soun	d that is s	tored as digital informat	tion is called a
	(A)	buffer	- Say	(B)	stream	
	VOI	sample		(D)	byte	
	•		1.16			
			P 800		2	
171.	Whic	h of the following is a	music compr	ession sch	eme to reduce file size?	
	VIII I	MP 3	ege i s	(B)	WAV	
	(C)	JPEG		(D)	AVI	
172.	EPS	is an acronym for	U 18 04	•		
114.	(A)	Enhanced post scrip	+	(B)	Extended post script	
	(11)	Encapsulated post se		(D)	Edited post script	
	\		P*	(2)	- Proceedings	

173.	What	t does AVI stands for?	15 4 24				
e	(A)	Audio for voice on the	internet	(B)	Audio voice inte	rleaved	
	(0)	Audio video interleave	ed	(D)	Adapted video fe	or internet	
				J -			
174.	-	—— applies a bitmap	image over a	surfac	e to give it more	realistic appearance	e like
	putti	ng wallpaper on a wall.					
_	(A)	Anti aliasing		(B)	Morphing		
	VE	Texture mapping		(D)	Shading		
175.	A mu	sic compression schem	e to reduce the	file siz	e by motion pictu	re experts group is	
	(A)	.MP4		(15)	.МР3		
	(C)	.WAV		. (D)	.aiF		
176.	Whice	ch one of the following is	s not an elemen	t of a	multimedia syste	m?	
170.			s not an elemen	(B)	Sound		
	(A)	Text					
		Odors		(D)	Pictures		
. *							
177.	To co	ompress an image with	JPEG the imag	e is di	vided into ———	—— blocks.	
	(A)	5×5 pixels		(B)	6×6 pixels		
	(C)	7×7 pixels	1	(10)	8×8 pixels		
						y Karin Ny N	
178.	A vio	deo consists of sequence	of				
SERVE / 1867	1	Frames	6	(B)	Signals		
	. (C)	Packets		(D)	Slots		
	. (0)	2 304000		,	- Andrews In .		

179.	Wh	ich of the following is not a value for Alig	n att	ributes of ?
	(A)	TOP	(B)	LEFT
	(C)	воттом	D	CENTRE
180.	Wh	ch of the following is a folder of internet	short	coute?
	(A)	Bookmark	SHOT (Favorites
5		No. of the second secon	(D)	
	(C)	Internet short cuts	(D)	History
	*			
181.	IP a	ddresses are in the format xxx.xxx.xxx.xxx.x	xx w	here each xxx is a number from
	to —			
	(A)	0 to 128	(B)	128 to 256
	(0)	0 to 255	(D)	0 to 256
182.		attribute is used to set an image	. 41	
102.	(4)	attribute is used to set an image a		
	(A)		(B)	bground
	VO P	background	(D)	picture
183.	Whic	ch of the following is an HTML document	t that	t is stored on the web server?
	(A)	Web site	D)	Web page
	(C)	Portal	(D)	Web guide
			(- <i>)</i>	
101	1777			
184.		is responsible for running the program in	-	
	(A)	Site Admin	3)	Site Manager
	(C)	List Admin	(D)	List Manager

185.	w nic	n of the following is not correct:		
	(1)	HTML is a programming language	(B)	HTML is not extensible
	(C)	HTML is a mark up language	(D)	HTML is used to create a static page
	****		, 1	
186.	Whic	h of the following provide a way to refe		
	(2)	URL	(B)	http
	(C)	ftp	(D)	file
187.	Whic	h element is used to specify a scrolling	text?	
	(A)	<move></move>	(B)	<scroll></scroll>
	(C)	<slide></slide>	0	<marquee></marquee>
			1	
100	1177	1	C	
188.		h attribute contains a list of one or mo		4
	(A)	FONT	(B)	STYLE
•	The same of the sa	FACE	(D)	LIST
189.	17	attribute is used to set the encode	ding m	ethod for form data.
	(A)	ENCODE	(B)	ENCRYPT
	Sel.	ENCTYPE	(D)	ECRYPT
	Ť.,			
100	m.	alament defines the set of fr	amae	that makes up the document.
190.	The -		(B)	<frame/>
: 3	(A)	<set></set>	(D)	<lf></lf>
		<frame set=""/>	(D)	\LF >
191.	*	is used to identify the document	speci	fically.
	(A)	URL	(B)	URN
	(C)	URC	VO	URI

100	m	. 1 .	I MADODO			""
192.	The —	— value for	the TARGET	attribute may	be useful for	"frame busting".

—top

(B) -blank

(C) -self

(D) -parent

193. Match the following:

List I

List II

(a) Fayol

1. Grapevine

(b) Simon

2. Cybernetics

(c) Shannon

3. Gangplank

(d) Weiner

4. Noise

- (a)
- (b)
- (c) (d)

- (A)
- 1
- 1

- (3)
- 4

4

1

2

2

- (C) 3
- 2

1

- (D) 3
- 1
- 2

1

- 194. The practice of placing a candidate at the right job is
 - (A) Selection

Placement

(C) Interview

- (D) None of these
- 195. Which of the following is not an attribute of <a> tag?
 - (A) ACCESS KEY

(B) TAB INDEX

(E) TEXT

(D) REL

196.	If th	ne function declaration does not specify any return type, then by default, the function
	(A)	No Integer
	(C)	Character (D) Float
197.	The	acronym JAD stands for
101.	(A)	Joint Application Development (B) Joint Analytical Design
	(A)	Joint Application Design (D) Joint Application Decision
		Joint Application Design (D) Joint Application Decision
198.	syste	is a set of programs that controls and supervises the hardware of a computer em and provides services to computer users.
	(1)	Operating system (B) Compiler
	(C)	Assembler (D) Device Driver
199.	Mate	ch the following routing concept:
54	(a)	Adaptive routing 1. Bellman – Ford
	(b)	Non-adaptive routing 2. Dynamic routing
	(c)	Distance vector routing 3. Reverse-path-forwarding
	(d)	Broadcast routing 4. Static routing
		(a) (b) (a) (d)
		(a) (b) (c) (d) 2 4 1 3
,	(P)	1 3 2 4
	(B) (C)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	(D)	4 1 3 2
	(D)	
200.	In m	nultimode fiber the core diameter is
	(A)	60 microns (B) 75 microns
•	10%	50 microns (D) 155 microns