4406

Register Number	
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Part III — COMPUTER SCIENCE (Vocational Component under General Stream)

(English Version)

Time Allowed: 3 Hours]		[Maximum Marks : 150
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- Note: i) Candidates should answer all the questions in PART I (Objective type) (1 to 75) in the separate OMR Answer Sheet supplied. (Refer instructions given in the OMR Answer Sheet)
 - ii) The number of the sign '—' (dash) as found in the right-hand top corner of the Question Paper (i.e., (1) or (2) or — (3) or — (4) should be shaded in the OMR Answer Sheet using HB Pencil.
 - iii) Time allotted for answering question numbers 1 to 75 is first 75 minutes.
 - iv) Parts II and III questions (76 to 110) should be answered in the main answer-book.

PART - I

Choose the best answer:

 $75 \times 1 = 75$

- 1. Which of the following formulae calculates the sum of numbers in the cell A2 of sheet 1 and A1 of sheet 2?
 - A) = sum (sheet $1 \cdot A2 + sheet 2 \cdot A1$)
 - B) = sum (sheet 1 : A2 ; sheet 2 : A1)
 - C) = sum (sheet 1 . A2 ; sheet 2 . A1)
 - D) = sum (sheet 1 . A2 : sheet 2 . A1).

2.	The	e term data comes from the word		
	A) -	Datum	B)	Dat
	C)	Datu	D)	Datumus.
3.	Eac	h column in a table represents a		
X	A)	Record	B)	Field
	C)	File Large to the	D)	Database.
4.	Spr	eadsheet is an example of which of th	ne follo	owing databases?
	A)	Flat File	B)	Network
	C)	Relational	D)	Hierarchical.
5.	Wh	ich of the following are called the com	mon f	ields in a relational database?
	A)	Keys	B)	Files
	(C)	Records	D)	Table.
6.	In v	which of the following mechanisms are	e the d	lata and functions bound togethe
	with	ain an object definition?		of BIVO self-m
	A)	Polymorphism	B)	Inheritance
	C)	Encapsulation	D)	Operations.
7.	The	ability of an object to respond differen	ently t	o different messages is called as
	A)	Polymorphism	B)	Inheritance
	C)	Encapsulation	D)	Function.
8.	Who	developed C ++ ?		
	A)	Bjarne Stroustrup	B)	Dennis Ritchie
	C)	Rick Mascitti	D)	Dan Bricklin.
9.	Вус	default, the local variables are		
	A)	Auto	B)	Static
	C)	Extern	D)	Register.

10.	What is the range of int data type?		
	A) - 32768 to 32767	B)	- 32767 to 32768
	C) - 32728 to 32727	D)	- 32728 to 32729.
11.	Which of the following class access sp	pecifiers i	s optional ?
	A) Public	B)	Protected
	C) Private	. D)	Class.
12.	Data members are called as		Whatbook the following to
	A) Methods	B)	Attributes
	C) Datatypes	D)	Pointers.
13.	Which of the following members can l	be access	ed only from within the class?
	A) Private	B)	Public
	C) Protected	D)	Static.
14.	Class product		all at supulot un lo sauté . A
*	(- Managonia and Managonia an		
	int a, b;		
	float P;		
	public:		
	void assign_data();	ne tanad	
	void display();		n velk vaa A
	1: January Commercial		Man Con Control
	void main()		at surresco of resident and the
	product P1, P2;		
	con irrena for free lendly stone to a		al aniwalia side to dainy.
	The number of bytes allotted for the v	ariable P	l is
	A) 12	B)	10
	C) 8	D)	4.

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15.		ch of the following terms means a nings?	nam	e having two or more distinct
	A)	Overloading	B)	Encapsulation
	C)	Inheritance	D)	Data Abstraction.
16.	In S	tarOfficeWriter, the flashing vertical b	ar is	called
	A)	Pointer	B)	Marker
	C)	Insertion point	D)	Key.
17.		ch of the following keys is used OfficeWiter?	to s	elect the entire document in
	A)	Ctrl + E	B)	Ctrl + L
	C) '	Ctrl + A	D)	Ctrl + D.
18.	Whi	ch is used to call attention to key idea	s or p	oints in a document?
	A)	Highlighting	B)	Editing
	C)	Formatting	D)	Text color.
19.	Whi	ch of the following is the decorative fo	nt?	and state of the s
	A)	Fajita	B)	Times New Roman
	C)	Arial	D)	Arial Black.
20.	Whi	ch key is pressed to select the spellin	g con	nmand?
	A)	F5	B)	F6
	C)	F7	D)	F2.
21.	In w	hich format is the date format entere	d in a	cell in StarOfficeCalc?
	A)	DD / MM / YY	B)	MM / DD / YY
****	C)	YY / DD / MM	D)	YY / MM / DD.
22.	Whi	ch reference operator is named as Int	tersect	tion ?
	A)		B)	1
	C)	&	D)	
23.		ch of the following has shortcut eadsheet?	icons	for frequently done tasks in
	A)	Menu bar	B)	Formula bar
	C)	Function bar & Object bar	D)	Main tool bar.

Turn over

24.	24. Which command is used to generate a series of data on selected cells?				
	A)	Format	B)	Fill	
	C)	Insert	D)	Series.	
25.	Whi	ch icon is used to insert object from o	other a	application into a worksheet?	
	A)	Insert OLE Object	B)	Insert Floating Frame	
	C)	Insert plug-in	D)	Insert Applet.	
26.	How	many field types are there in StarOf	ficeBa	ise?	
	A)	13 (hawa) (3)	B)	11	
	C)	10	D)	20.	
27.	Whi	ch of the following filters is a filter us	ed wit	th a condition?	
	A)	Autofilter	B)	Sortfilter	
	C)	Filter	D)	Standard filter.	
28.	DBI	MS stands for	v	25. V. oloso comprises	
	A)	DataBase Manage System		Azalesmatch M	
	B)	DataBase Management System		(a) two (A) thou (A)	
	C)	DataBase Management Structure		26. To change the hackground of	
	D)	DataBase Message System.			
29.	To i	nsert a text outline into presentation,	choos	se	
	A)	$File \rightarrow Insert \rightarrow Presentation$		migrose 4 - SME - Call	
	B)	$File \rightarrow Send \rightarrow Presentation$		37. Walde is an entranged to a	
•	C)	File → Insert → Outline to Presenta	tion		
	D)	File → Send → Outline to Presentati	lon.		
30.		ich of the following is a process of jerent databases?	oining	g data from two or more tables of	
	A)	Searching	B)	Sorting	
	C)	Merging	D)	Filtering.	

31.	Th	e size of the array is always		win bean a hasmon water
	A)	Positive	B)	Negative
	-C)	Float	D)	Double.
32.	Но	w many elements are stored in an ar	ray int	num [4] [2] ?
	A)	2 mint general I heart (1)	B)	4
	C)	6 AND	D)	8.
33.	Wh	nich of the following functions compa	eres the	e two given strings?
	A)	strcpy()	B)	cpystr()
	C)	cmpstr()	D)	strcmp()
34.	Ho	w many copy of the member variable	e is crea	ated if it is static memory?
	A)	2	B)	1 millione 10.
	(C)	3	D)	4.
35.	Ac	lass comprises		19 abada awed
	(A)	data members	B)	member functions
	C)	both (A) and (B)	D)	none of these.
36.	То	change the background of a slide, ch	oose	
	A)	File \rightarrow Page \rightarrow Background	B)	Format → Slide → Background
	C)	File \rightarrow Slide \rightarrow Background	D)	Format → Page → Background
37.	Whi	ch of the following keys is used to si	tart a p	resentation?
	A)	F2 nobstrae	B)	F5
	C)	F7	D)	F11.
38.	Whi	ch view allows you to create and edi	t slides	? Salesolof en lo rouw
	A)	Handouts view	B)	Outline view
	C)	Notes view	D)	Normal view.

Turn over

39.	WIN	ch key is used to print a document in	Jian	Jincempress :
	A)	Alt + P	B)	Ctrl + P
	C)	Shift + P	D)	Shift + Ctrl + P.
40.	Whi	ch command is used to open Navigato	or?	nsi sulisatila ssa dangara 3
	A)	File → Navigator	B)	Tools → Navigator
	C)	Edit → Navigator	D)	Insert → Navigator.
41.	Whi	ch of the following is not true related	to fun	ction overloading?
	A)	Each overloaded function must parameter.	differ	by the number of its formal
1	B)	The return type of overloaded functi	ons m	ay be the same data type.
	C)	The default arguments are consider parameter list.	red by	the C++ compiler as part of the
	D)	Do not use the same function name	for tw	o unrelated functions.
42.		integral promotions, int data type wing?	can 1	be converted into which of the
	A)	Char	B)	Double
	C)	Float	D)	All of these.
43.	Whi	ch of the following cannot be overload	ded?	
	A)	Constructors	B)	Destructors
	(C)	Operators	D)	Functions.
44.	Whi	ch of the following is automatically ex	ecute	d when the object is created?
	A)	Constructor	B)	Variables
	C)	Operators	D)	Destructor.
45.		en a class object goes out of scope, we executed?	hich (of the following special functions
	A)	Destructor	B)	Constructor
	C)	Overloading	D)	Pointer.

46.	. Which of the following variables holds a memory address?			
	A)	Static	B)	Pointers
	C)	Register	D)	Auto.
47.	Ар	reprocessor directive starts with		o of the control of t
	A)	\$	B)	# Propagation of such light.
	C)	< kitagos - resm (d	D)	@.
48.	Wh	ich of the following statements force	s the	next iteration of the loop to take
	plac	ce skipping any code following the sta	temer	at in the body loop?
	A)	Break	B)	Continue
	C)	Switch	D)	For.
49.	Hov	v many times will the following loop b	e exec	cuted ?
	10	for $(i = 1; i < 30; i ++)$		hel seamond
	A)	1	B)	29
	C)	30	D)	31.
50.	Whi	ich of the following is an entry-control	lled lo	op?
	A) ,	For the state of t	B)	Do-while
	C)	Switch	D)	If else.
51.	Топ	move Insertion Point Backward throu	gh the	e cells of a table, press
	A)	shift	B)	shift + tab
	C)	TAB	D)	Left arrow.
52.	Ву	default, each cell in a table includes a	1	
	A)	border	B)	row
	C)	column	D)	row and border.
53.	The as	length of a document will be more t	han tl	he width. This alignment is called
	A)	Landscape	B)	Portrait
	C)	Paper format	D)	Paper source.

54.	In S	tarOfficeWriter, to display the ruler of	n the	sceen, select ruler	under
	A)	File	B)	Edit	
	C)	Format	D)	View.	
55.	Visi	calc was invented by		*	
	A)	Dan Bricklin			
	B)	Bob Frankston			
	C)	Bill Gates	. Maria		in dainw SB
	D)	Dan Bricklin and Bob Frankston.			
56.	MPI	EG stands for			
	A)	Moving Pictures Experts Group		of the Vollowing me	
	B)	Model Pictures Expression Group		a lunios edicar disco	hemeles
	C)	Moving Pictures Expression Group			
	D)	Morphing Pictures Experts Group.			
57.	Con	version of analog sound waves to a d	igital i	format is called as	
	A)	echo	B)	sound forge	
	C)	frequency	D)	sampling.	
58.		ich of the following is a technique to lage?	blend	two or more images	to form a new
	A)	Warping	B)	Morphing	
	C)	Modelling	D)	Animating.	
59.	In	which year was real audio format dev	elope	1?	
	A)	1982	B)	1995	
	C)	1994	D)	1981.	
60.	Wh	ich tag is used to add in-line sound t	o a w	eb page?	
	A)	<inline></inline>	B)	 bgsound>	
	C)	<sound></sound>	D)	<helper></helper>	
					Turn over

01.	. 11.	ie statement int A; b; is invalid beca	use	A SteeOfficeWriter, to display
	A)	only one variable should be given		and the
	B)	capital A is not allowed		ulmer (o
	C)	variables should be separated by c	omma	vo a trosvici sevi objektivi je je
	D)	all of these.		Bob Privilaton
62.	Wl	nich of the following statements, mark	s the	end of the function in C ++?
	A)	Continue	B)	Break
	C)	Return	D)	End.
63.		which of the following methods any		e made in the format parameter is
	rei	lected back in the actual parameter?		
	A)	Call by value	B)	Call by reference
	C)	Call by function	D)	Call by statement.
64.	The	e function that returns no value is dec	clared	as no a goldina la goldina de 12
	A)	Main	B)	Friend
	C)	Void	D)	Online.
65.	Wh	ich of the following is called scope res	olutio	n operator ?
1	A)	&	B)	*
*	C)	:: Morgania	D)	?:
66.	CBT	r means		
	A)	Computer Based Tutorials	B)	Common Based Tutorials
	C)	Computer Based Teaching	D)	Computer Based Teacher.
67.	Whi	ch of the following IT Enabled Se	rvices lata ?	is a category of pertaining to
	A)	Call Centres	B)	Data Management
	C)	E-Governance	D)	Web based services

68.		ch of the following refers to the proc gital form?	ess of	converting a non-digital material
	A)	Data conversion	B)	Medical transcription
	C)	Data digitization	D)	Digital conversion cracking.
69.	Whi	ch of the following securities refers t	o the p	protection of hardware?
	A)	Personal	B)	Personnel
	C)	Physical	D)	Data.
70.		software runs on an idle companization, it is called as theft of	puter	without the knowledge of the
	A)	software	B)	organization
	C)	computer time	D)	hardware.
71.	Nan	ne of a destructor begins with		
	A)		B)	?
	C)		D)	
72.	Wh	ich of the following is a class from w	hich o	ther classes are derived?
	A)	Derived class	B)	Base class
	(C)	Function class	D)	Superclass.
73.	Wh	ich of the following is a default visibil	lity mo	ode?
	A)	Public	B)	Protected
	C)	Private	D)	Class.
74.	Cla	sses used only for deriving other class	sses a	re called as
	A)	base	B)	derived
	(C)	abstrart	D)	static.
75.	Wh	at will be the 85% usage of compute	r ?	Vicery to a copy constructor p
	A)	Word processing	B)	Database
	C)	Spreadsheet	D)	Presentation.

PART - II

Answer any twenty questions in one or two sentences each:

 $20 \times 2 = 40$

- 76. Define Text editing.
- 77. How will you delete the entire table in StarOfficeWriter?
- 78. Name the different types of cell referencing in StarOfficeCalc?
- 79. Write a note on text operators in StarOfficeCalc.
- 80. What is a database?
- 81. What distinguishes information from data?
- 82. Define Warping.
- 83. Write about the types of Video compressions.
- 84. What is Custom Animation?
- 85. What is Rehearse Timing?
- 86. Define Object.
- 87. Find the value of C in the following C++ snippet:

X = 10:

F = 20:

C = X++ + ++F;

- 88. Define Tokens.
- 89. What is type cast?
- 90. Write the syntax of switch-case statement.
- 91. What are the advantages of using functions in C++?
- 92. Define array.
- 93. Find the errors in the following C++ snippets:
 - a) inta[5.5];
- b) float num [A]:
- 94. Define Data Abstraction.
- 95. What is meant by array of objects in C++?
- 96. How are functions involved in function overloading?
- 97. When is a copy constructor executed?
- 98. Write the syntax for deriving a class from its base class.
- 99. What is the use of call centres?
- 100. Write a note on cracking.

PART - IU

Answer any seven of the following questions in five to ten sentences each:

 $7 \times 5 = 35$

- 101. Explain the different ways of selecting text in StarOfficeWriter document.
- 102. Explain the various functions of the icons in the table formatting toolbar.
- 103. What are functions? How can you use them in your worksheet? Explain with an example.
- 104. Explain the procedure to insert a chart in a worksheet.
- 105. How will you generate reports in StarOffficeBase?
- 106. Explain Nested-if statement with an example.
- 107. Differentiate between call by value and call by reference of functions in C++.
- 108. What are the rules of operator overloading?

sum = NULL:

109. Debug the following C++ program to get the given output :
#include < oistream.h >
class add

```
int num 1, num 2, sum;
public
add()
     cout<<"\n Constructor without parameters..";
     num 1 = 0:
     num 2 = 0;
     sum = 0:
ad (int sl, int s2)
     cout<<"\n parameterized constructor..";
     num 1 = S1:
     num 2 = S2;
      sum = NULL:
add (add a)
     cout<<"\n Copy Constructor...";
      numl = a . numl;
      num2 = a . num2 ;
```

```
Void getdata()
          num1 = 10;
          num2 = 20;
     void putdata()
          cout<<"\n The numbers are...":
          cout<<num1<'\t'< num2;
          sum=num1 + num;
          cout<<"\n The sum of the numbers"<<sum;
     void main[]
          add a, b (10, 20), c(b);
          a.getdata();
          cout >>"\n Object a:";
          a. putdata();
          cout >>"\n Object b :";
          b. putdata();
          cout >>"\n Object c:";
          c. putdata();
Constructor without parameters..
parameterized constructor...
Copy constructor...
Object a:
The numbers are... 10 20
The sum of the numbers 30
Object b:
The numbers are... 10 20
The sum of the numbers 30
Object c:
The numbers are... 10 20
The sum of the numbers 30
```

```
110. Find the output of the following C++ program:
     #include<iostream.h>
     #include<conio.h>
     class base
     public:
     base()
     cout<< "\n Constructor of base class ...";
     ~ base()
     cout<<"\n Destructor of base class ...";
     class derived : public base
     public:
     derived()
     cout<<"\n Constructor of derived..";
     ~ derived()
     cout<<"\n Destructor of derived..":
     class derived2 : public base
     public:
     derived2()
     cout<<"\n Constructor of derived2 ..";
     ~ derived2()
    cout<<"\n Destructor of derived2 ..";
    }
    };
    void main()
    derived 2 x:
```

t disting the output of the lotoring C++ program t sand sildue (bekind ande - derwed2()