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

(English Version)

Time Allowed: 3 Hours] [Maximum Marks: 150

- 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).



ĝ

2.	The	term data comes from the word		Anna
	A) -	Datum	B)	Dat
	C)	Datu	D)	Datumus.
3.	Eac	h column in a table represents a		
N	A)	Record	B)	Field
	C)	File State of 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	nin an object definition?		M. SEVO Estrina
	A)	Polymorphism	B)	Inheritance
	C)	Encapsulation	D)	Operations.
7.	The	ability of an object to respond differen	ently to	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.	Ву	lefault, 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 spec	cifiers i	is optional?
	A) Public	B)	Protected
	C) Private	. D)	Class.
12.	Data members are called as		Manual and the day of the Asia
	A) Methods	B)	Attributes
	C) Datatypes	D)	Pointers.
13.	Which of the following members can be	access	ed only from within the class?
	A) Private	B)	Public
	C) Protected	D)	Static.
14.	Class product	76	at salvathor and to appear
*	ochouses and see	10	
	int a, b;		
	float P;		
	public:		
	void assign_data();		
	void display();		n villa villa da
			Mark Control of
	void main()		2 Which reference operators is
	product P1, P2;		
	Hour teens for free upitily done to the		a sylvetic of the following la
	The number of bytes allotted for the vari	lable P	l is
	A) 12	B)	10
	C) 8	D)	4.

4400	4		
15.	Which of the following terms mean meanings?	s a nan	ne having two or more distinct
	A) Overloading	B)	Encapsulation
	C) Inheritance	D)	Data Abstraction.
16.	In StarOfficeWriter, the flashing vertical	al bar is	called
	A) Pointer	B)	Marker
	C) Insertion point	D)	Key.
17.	Which of the following keys is us StarOfficeWiter?	sed to s	select the entire document in
	A) Ctrl + E	B)	Ctrl + L
	C) Ctrl + A	D)	Ctrl + D.
18.	Which is used to call attention to key i	deas or p	points in a document?
	A) Highlighting	B)	Editing
	C) Formatting	D)	Text color.
19.	Which of the following is the decorative	e font?	and the state of t
	A) Fajita	B)	Times New Roman
	C) Arial	D)	Arial Black.
20.	Which key is pressed to select the spe	lling cor	mmand?
	A) F5	B)	F6
	C) F7	D)	F2.
21.	In which format is the date format ent	ered in a	
	A) DD/MM/YY	B)	MM / DD / YY
	C) YY / DD / MM	D)	YY / MM / DD.
22.	Which reference operator is named as	Intersec	tion ?
	A) :	B)	1
	C) &	D)	
23.	Which of the following has shorte	ut icon	s for frequently done tasks in
	spreadsheet?		
	A) Menu bar	B)	Formula bar
	C) Function bar & Object bar	D)	Main tool bar.

Turn over

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	ther 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 StarOff	ficeBa	se ?	
	A)	13	B)	11	
	C)	10	D)	20.	
27.	Whi	ch of the following filters is a filter use	ed wit	h a condition?	
	A)	Autofilter	B)	Sortfilter	
	C)	Filter	D)	Standard filter.	
28.	DBN	//S stands for		25. 'A closs comprises	
	A)	DataBase Manage System		Alexander Management	
	B)	DataBase Management System		(et sen (A) shop - 10	
	C)	DataBase Management Structure		36. , To change the background of	
	D)	DataBase Message System.			
29.	To i	nsert a text outline into presentation,	choos	e e	
	A)	$File \rightarrow Insert \rightarrow Presentation$		OTRIDAGE (- SIGE) C- BLM	
	B)	$File \rightarrow Send \rightarrow Presentation$		S. Valde de la company vent	
	C)	File → Insert → Outline to Presentat	ion	A US	
	D)	File \rightarrow Send \rightarrow Outline to Presentati	on.		
30.		ich of the following is a process of journet databases?	oining	data from two or more tables of	
	A)	Searching	B)	Sorting	
	C)	Merging	D)	Filtering.	

31.	Th	e size of the array is always		to our beaut or transmission of side of			
	A)	Positive	B)	Negative			
	-C)	Float	D)	Double.			
32.	Но	w many elements are stored in an ar	ay int	num [4] [2] ?			
	A)	2 mind subsect troons	B)	4			
	C)	6 malara mania 44	D)	8.			
33.	Wh	nich of the following functions compa	res the	e two given strings?			
	A)	strepy()	B)	cpystr()			
	C)	cmpstr()	D)	strcmp()			
34.	Ho	w many copy of the member variable	is crea	ated if it is static memory?			
	A)	2	B)	1 matthodisk pa			
	(C)	3 milli bubusit 10	D)	4.			
35.	A c	lass comprises		Davis store &			
	(A)	data members	B)	member functions			
	C)	both (A) and (B)	D)	none of these.			
36.	To change the background of a slide, choose						
	A)	File \rightarrow Page \rightarrow Background	B)	Format → Slide → Background			
	C)	$File \to Slide \to Background$	D)	Format → Page → Background.			
37.	Whi	ch of the following keys is used to st	art a p	resentation?			
	A)	F2 nothitree	B)	F5			
	C)	F7	D)	F11.			
38.	Whi	ch view allows you to create and edit	slides	? Audieollof en la ibidW .0			
	A)	Handouts view	B)	Outline view			
	C)	Notes view	D)	Normal view.			

39.	Whi	ch key is used to print a document	in Star	OfficeImpress ?
	A)	Alt + P	B)	Ctrl + P
	C)	Shift + P	D)	Shift + Ctrl + P.
40.	Whi	ch command is used to open Naviga	ator?	
	A)	File → Navigator	B)	Tools → Navigator
	C)	Edit → Navigator	D)	Insert → Navigator.
41.	Whi	ich of the following is not true relate	d to fur	nction overloading?
	A)	Each overloaded function must parameter.	t differ	by the number of its formal
1	B)	The return type of overloaded fund	ctions n	nay be the same data type.
	C)	The default arguments are consideral parameter list.	dered by	the C++ compiler as part of the
	D)	Do not use the same function name	ne for tw	o unrelated functions.
42.		integral promotions, int data typowing?	e can	be converted into which of the
	A)	Char	B)	Double
	C)	Float	D)	All of these.
43.	Wh	ich of the following cannot be overlo	aded?	Comment of the second
	A)	Constructors	B)	Destructors
	,C)	Operators	D)	Functions.
44.	Whi	ich of the following is automatically	execute	d when the object is created?
	A)	Constructor	B)	Variables
	C)	Operators	D)	Destructor.
45.		en a class object goes out of scope, executed?	which	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.	A p	reprocessor directive starts with		o 6) been a bremero dades . O	
	A)	\$ your least you	B)	# Crossing of the Control of the Con	
	C)	< reterior - result of	D)	@ .	
48.	Whi	ich of the following statements force	s the	next iteration of the loop to take	
	plac	ce skipping any code following the sta	temen	it in the body loop?	
	A)	Break	B)	Continue	
	C)	Switch	D)	For.	
49.	Hov	w many times will the following loop b	e exec	uted ?	
	1/*	for (i = 1 ; i < 30 ; i ++)	10	Jay residency	
	A)	1	B)	29	
	C)	30	D)	31.	
50.	Whi	ch of the following is an entry-control	led lo	op?	
	A)	For	B)	Do-while	
	C)	Switch	D)	If else.	
51.	Топ	nove Insertion Point Backward throug	gh the	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			
	A)	border	B)	row	
	C)	column	D)	row and border.	
53.	The as	length of a document will be more t	han tl	ne width. This alignment is called	
	A)	Landscape	B)	Portrait	
	C)	Paper format	D)	Paper source.	

54.	In S	tarOfficeWriter, to display the ruler o	n the	sceen, select ruler under
	A)	File	B)	Edit de la company de la compa
	C)	Format	D)	View.
55.	Visio	calc was invented by		and all blancin abligation. 5
	A)	Dan Bricklin		
	B)	Bob Frankston		
	C)	Bill Gates		
	D)	Dan Bricklin and Bob Frankston.		and the surface of the same
56.	MPE	EG stands for		
	A)	Moving Pictures Experts Group		an prevolet of think ni to
	B)	Model Pictures Expression Group		
	C)	Moving Pictures Expression Group		0
	D)	Morphing Pictures Experts Group.		indianet vollage - C
57.	Con	version of analog sound waves to a di	gital i	format is called as
	A)	echo	B)	sound forge
	C)	frequency	D)	sampling.
58.	Whi	ich of the following is a technique to b	olend	two or more images to form a new
	ima	ge ?		
	A)	Warping	B)	Morphing
	C)	Modelling	D)	Animating.
59.	In v	which year was real audio format deve	eloped	1?
	A)	1982	B)	1995
	C)	1994	D)	1981.
60.	Wh	ich tag is used to add in-line sound t	o a we	eb page?
	A)	<inline></inline>	B)	 bgsound>
U.	C)	<sound></sound>	D)	<helper></helper>
				(Turn over)

01.	. 11	ie statement int A; b; is invalid beca	use	to Mark Stee Office Writer, to display
	A)	only one variable should be given		
	B)	capital A is not allowed		Julian ()
	C)	variables should be separated by c	omma	vol = Missel (sew photos)
	D)	all of these.		noted and de Car
62.	W	nich of the following statements, mark	s the	end of the function in C ++?
	A)	Continue	B)	Break
	C)	Return	D)	End.
63.	In	which of the following methods any	chang	e made in the format parameter is
	ref	lected back in the actual parameter?	3=D (3	under Tax Resusses (Suot)
	A)	Call by value	BJ	Call by reference
	C)	Call by function	D)	Call by statement.
64.	The	e function that returns no value is dec	clared	as much polarite in gouldeners 1.13
	A)	Main	B)	Friend
	C)	Void	D)	Online.
65.	Wh	ich of the following is called scope res	olutio	on 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 proce 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 to	the p	protection of hardware?
	A)	Personal	B)	Personnel
	C)	Physical	D)	Data.
70.		software runs on an idle comp	uter	without the knowledge of the
	A)	software	B)	organization
	C)	computer time	D)	hardware.
71.	Nan	ne of a destructor begins with	neawo	O to a least law way
	A)	•	B)	
	C)		D)	9
72.	Whi	ich of the following is a class from wh	nich ot	ther classes are derived?
	A)	Derived class	B)	Base class
	C)	Function class	D)	Superclass.
73.	Whi	ich of the following is a default visibili	ity mo	de?
	A)	Public	B)	Protected
	C)	Private	D)	Class.
74.	Clas	sses used only for deriving other clas	ses ar	e called as
	A)	base	B)	derived
	C)	abstrart	D)	static.
75.	Wha	at will be the 85% usage of computer	?	Visit, is 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) int a [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 - III

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?
- 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 ;
      sum = NULL:
```

```
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 ...";
                                       ilgo lugia.
     ~ 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:
```

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