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4406

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

(English Version)

Time Allowed: 3 Hours 1 Maximum Marks: 150

- Candidates should answer all the questions in PART I Note: 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.
 - Time allotted for answering question numbers 1 to 75 is first 75 minutes.
 - Parts II and III questions (76 to 110) should be answered in the main answer-book.

PART - I

Choose the best answer:

 $75 \times 1 = 75$

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

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			1 age
840	\$ 10 6 10		37
2.	The term data comes from the word		1.0
	A) Datum	B)	Dat
	C) Datu	D)	Datumus.
3.	Each column in a table represents a		
, N	A) Record	B)	Field
	C) File	D)	Database.
4.	Spreadsheet is an example of which of	the foll	lowing databases ?
	A) Flat File	B)	Network
	C) Relational	D)	Hierarchical.
5.	Which of the following are called the co	mmon	fields in a relational database?
	A) Keys	B)	Files
	C) Records	D)	Table.
6.	In which of the following mechanisms a	re the	data and functions bound together
	within an object definition?		to SIVO ettria
	A) Polymorphism	B)	Inheritance
	C) Encapsulation	D)	Operations.
7.	The ability of an object to respond diffe	rently	to 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.	By default, the local variables are		and the state of t
	A) Auto	B)	Static

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D)

Register.

C) Extern

			SE SE
			Leg .
		3	18
10.	What is the range of int data type?		(SIZE)
	A) - 32768 to 32767	B)	- 32767 to 32768
	C) - 32728 to 32727	D)	- 32767 to 32768 - 32728 to 32729.
11.	Which of the following class access	specifiers	
	A) Public	B)	Protected
	C) Private	. D)	Class.
12.	Data members are called as		Medical Committee (Committee Committee Committ
	A) Methods	B)	Attributes
	C) Datatypes	D)	Pointers.
13.	Which of the following members can	be access	sed only from within the class?
	A) Private	B)	Public
	C) Protected	D)	Static.
14.	Class product		19. Valide of the following to the
*	achidiciosi isang la		
	int a, b;		Salah Bana Bana Bana Bana Bana Bana Bana Ba
	float P;		mbe or beceng at year abute. 103
	public:		
	void assign_data();		
	void display();		
	1: OO V NEW V SYL LO		
	void main()		Al source operator operator is
	(
	product P1, P2;		
	or icons for frequency done and		al galwalloi will to fluirivi es
	The number of bytes allotted for the	variable P	l is
	A) 12	B)	10
	0 0	DI	

				S
				, Edge
				124
				OH OH
4406	3	4		
15.		ch of the following terms means a	nam	e having two or more distinct
	mea	nings?		
	A)	Overloading	B)	Encapsulation
	C)	Inheritance	D)	Data Abstraction.
16.	In S	tarOfficeWriter, the flashing vertical b	ar is	called many and the same of th
	A)	Pointer	B)	Marker
	C)	Insertion point	D)	Key.
17.	Whi	ch of the following keys is used	to s	elect the entire document in
	Star	OfficeWiter ?		
	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 the state of t
	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 v	which 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	ich reference operator is named as Int	ersect	ion ?
	A)		B)	1
	C)	&	D)	Sec. 18 contact
23.		ich of the following has shortcut	icons	for frequently done tasks in
		eadsheet?	i sel i	ebolis sand to sidmon affi
		Menu bar	B)	Formula bar

C) Function bar & Object bar

D)

Main tool bar.

				of data on selected cells?
		5		Central
24.	Whi	ch command is used to generate a s	eries o	of data on selected cells?
	A)	Format	B)	FILL
	C)	Insert	D)	Series.
25.	Whi	ich icon is used to insert object from	other	application into a worksheet?
	A)	Insert OLE Object	B) '	Insert Floating Frame
	C)	Insert plug-in	D)	Insert Applet.
26.		w many field types are there in StarO	fficeBa	ase?
	A)	13	B)	11 (Neištie M.)
	C)	10	D)	20.
27.	8.00	ich of the following filters is a filter u	sed wi	th a condition?
	A)	Autofilter	B)	Sortfilter
	C)	Filter	D)	Standard filter.
28.	DBI	MS stands for		
	A)	DataBase Manage System		ezeremateb M
	B)	DataBase Management System		(e) how (a) group -45
	C)	DataBase Management Structure		to home pland and someto ST.
	D)	DataBase Message System.	Jane	A) When part — terror
29.	То	insert a text outline into presentation	, choo	se
	A)	File \rightarrow Insert \rightarrow Presentation		
	B)	File \rightarrow Send \rightarrow Presentation		
	C)	File → Insert → Outline to Presenta		
	D)	File → Send → Outline to Presenta		. 1.4. f two or more tobles
30.		nich of the following is a process of ferent databases?	joinin	g data from two or more tables
	A)	Searching	B)	Sorting
	C)	Merging	D)	Filtering.

(Turn over)

		-	-
- 40	10	ÆΝ	MΗ

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31. The size of the array is always

A) Positive

B) Negative

C) Float

D) Double.

32. How many elements are stored in an array int num [4] [2] ?

A) 2

B) 4

C) 6

D) 8.

33. Which of the following functions compares the two given strings?

A) strcpy()

B) cpystr()

C) cmpstr()

D) stremp()

34. How many copy of the member variable is created if it is static memory?

A) 2

B)

C) 3

D) 4.

35. A class comprises

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 \rightarrow Slide \rightarrow Background
- C) File \rightarrow Slide \rightarrow Background
- D) Format \rightarrow Page \rightarrow Background.

37. Which of the following keys is used to start a presentation?

A) F2

B) F5

C) F7

D) F11.

38. Which view allows you to create and edit slides?

A) Handouts view

B) Outline view

C) Notes view

D) Normal view.

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		7		OfficeImpress ? Ctrl + P
39.	Whi	ch key is used to print a document ir	Star	OfficeImpress?
	A)	Alt + P	B)	Ctrl + P
	C)	Shift + P	D)	Shift + Ctrl + P.
40.	Whi	ch command is used to open Navigato	or?	
	A)	File → Navigator	B)	Tools → Navigator
	C)	Edit → Navigator	D)	Insert → Navigator.
41.		ch of the following is not true related	to fun	ction overloading?
11.	A)	Each overloaded function must	3-7-1-0-	that a term term in primer the strails
	2 29	parameter.		and the second second
	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 two	o unrelated functions.
42.		integral promotions, int data type wing?	can l	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	cecuted	when the object is created?
	A)	Constructor	B)	Variables
	C)	Operators	D)	Destructor.
45.		n a class object goes out of scope, vexecuted?	vhich o	of the following special functions

B)

D)

Constructor

Pointer.

Destructor

Overloading

A)

C)

SHIIdent BOUNTS, COM 4406 8 46. Which of the following variables holds a memory address? A) Static B) **Pointers** C) Register D) Auto. 47. A preprocessor directive starts with B) A) \$ C) DI 48. Which of the following statements forces the next iteration of the loop to take place skipping any code following the statement in the body loop? A) Break B) Continue CI Switch D) For. 49. How many times will the following loop be executed? for (i = 1; i < 30; i ++)A) 1 29 B) 30 C) D) 31. 50. Which of the following is an entry-controlled loop? For A) B) Do-while Switch If else. D) 51. To move Insertion Point Backward through the cells of a table, press shift A) B) shift + tab TAB Left arrow. C) Dì By default, each cell in a table includes a border B) A) row column D) row and border. 53. The length of a document will be more than the width. This alignment is called as A) Landscape Portrait B)

D)

Paper source.

C)

Paper format

				sceen, select ruler unde Edit View.
		9		LET 18
54.	In S	tarOfficeWriter, to display the ruler of	n the	sceen, select ruler unde
	A)	File	B)	Edit
	C)	Format	D)	View.
55.	Visi	calc was invented by		
	A)	Dan Bricklin		
	B)	Bob Frankston		
	C)	Bill Gates		
	D)	Dan Bricklin and Bob Frankston.		
56.	MP	EG stands for		must 3
	A)	Moving Pictures Experts Group		and parenties soldered and
	B)	Model Pictures Expression Group		e Union att in daes barrete
	C)	Moving Pictures Expression Group		
	D)	Morphing Pictures Experts Group.		C) - Call by denoting
57.	Cor	version of analog sound waves to a d	igital i	format is called as
	A)	echo	B)	sound forge
	C)	frequency	D)	sampling.
58.	Wh	ich of the following is a technique to l	blend	two or more images to form a new
	ima	ige?		
	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>

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				Total Table
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61.		e statement int A; b; is invalid beca	use	· Con
	A)	only one variable should be given		
	B)	capital A is not allowed		
	C)	variables should be separated by co	omma	yd Estasyd iew pleater (e.g.
	D)	all of these.		othene uso se
62.	Wh	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 o		
		ected back in the actual parameter?		Newscar Assumed Fallow
	A)	Call by value	B)	Call by reference
	C)	Call by function	D)	Call by statement.
64.	The	function that returns no value is dec	clared	as more gottom to gottom or the
	A)	Main	B)	Friend
	C)	Void	D)	Online.
65.	Whi	ich of the following is called scope res	olutio	n operator ?
	A)	&	B)	*
	C)	El- Morgaling	D)	?:
66.	СВТ	means		gallsteld, (2)
	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	is a category of pertaining to
	colle	ction, digitization and processing of d	ata?	60. Which tag is used to add in-
	A)	Call Centres	B)	Data Management

D) Web based services.

C) E-Governance

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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?
- 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]:
- bl 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:

- 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, num2, 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 ;
```

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```

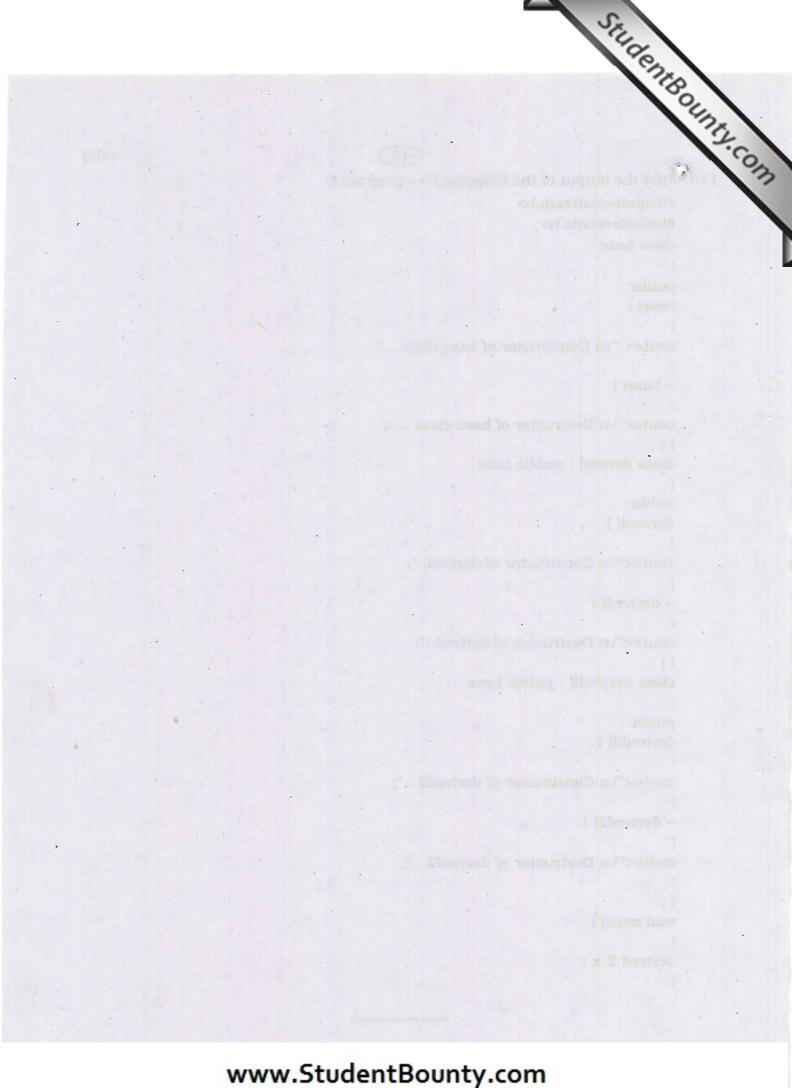
```
Void getdata()
          num1 = 10:
          num2 = 20;
     void putdata()
          cout<<"\n The numbers are...":
          cout<<num1<'\t'< num2;
          sum=num1 + num;
          cout<<"\n The sum of the numbers"<<sum;
     void main[]
          add a, b (10, 20), c(b);
          a.getdata();
          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
```

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```
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:
```



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