Question Paper Sl. No.

5107

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Number				anti	
	<u> </u>				

Part III - COMPUTER SCIENCE (Vocational Component under General St

Componen	t under General Stream)
	Version)
Time Allowed: 3 Hours]	[Maximum Marks : 150
ii) The number of the sign top corner of the Ques or (3) or in the OMR Answer She iii) Time allotted for answer 55 minutes.	ering question numbers 1 to 75 is first ions (76 to 110) should be answered in
Choose the correct answer:	olfi (C)
1. Which statement accomplishes jump fr	$75 \times 1 = 75$ om the current loop?
A) Break	B) Continue
C) Exit	D) Quit.
Which induces the reusability of the co	de ?
A) Objects	B) Classes
C) Functions	D) Variables.

1

5107 2 Which functions execute faster but require more memory space? A) Inline · B) Strcpy Strlen C) D) Stremp. Which option is invalid when related to functions of C++? A) Actual parameter can be passed in the form of a constant to be formal parameter of value type The actual parameter can be passed only as variable to the formal parameter of reference type The default value in the formal parameter is given in the form of variable initialization D) The default value for an argument can be given in between the argument list. What is the scope of the variable a in the following snippet? if (x < y)int a: a ++ ; A) local B) function C) file D) class. The members of a class are accessed using the operator A) B) C) D) Which of the following is not true?

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The return type of a member function cannot be of object data type.

A non-member function cannot access the private data of a class.

Member functions can be of static type.

A)

C)

		N. S.
		polymorphism data hiding.
3		1 8 T
Data abstraction is achieved through	- v	CHA.
A) encapsulation	B)	polymorphism
C) inheritance	D)	data hiding.
In C++, class variables are known as		C) Sign + Trub
A) class	B)	functions
C) members	D)	objects.
Which operator cannot be overloaded?		A Table properties
A) +	B)	++
C) >	D)	et resonned of the document is
A filter is also a type of		tienned (V
A) table	B)	form
C) report	D)	query.
Which is a printed information that is	assem	abled by gathering data based on
user supplied criteria ?		
A) Table	B)	Form
C) Report	D)	Query.
To insert a calc cell range into a text do	cument	
A) Edit → paste	B)	Edit → copy
C) Edit → paste special	D)	Edit → copy special.
Which is used to assemble information f	from da	ita?
A) DBMS	B)	Datum group of the state of the
C) Information	D)	Sorting.
Which key uniquely identifies a record in	n a tab	le ?
A) Primary	B)	Secondary

14.

15.

C)

Tertiary

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D)

Record pointer.

26

2

-	00			THE THE
	07	4		The section of motions of the
16	. W	hich key combination is pressed to a	nove b	ackward through cells?
	A)	Tab + F5	B)	Shift + F6
	C)	Shift + Tab	D)	Esc.
17.		Table \rightarrow Table properties command x is opened ?	is used	d, which one of the following dialog
	A)	Table properties	B)	Format Table
	C)	Table Format	D)	Cell properties.
18.	If the	he length of the document is more th	nan the	e width, the orientation is called
	A)	portrait	B)	default
	C)	landscape	D)	both (A) and (C).
19.	The	default margins for top, bottom and	i left, r	ight margins are
	A)	1.25 ", 1 "	B)	1", 1.25"
	C)	1", 1"	D)	1.25 ", 1.25 ".
20.	The	intersection of rows and columns co	reates	
	A)	table	B)	cells
	C)	address	D)	formula.
21.		ch enables online educational fication?	prog	rams leading to degrees and
	A)	e-banking	B)	e-shopping
	C)	e-learning	D)	Tele-medicine.
22.	The	expansion of BPO is		SWEED IA
	A)	Business Pupil Outsourcing	B)	Business People Outsourcing
	C)	Business Project Outsourcing	D)	Business Process Outsourcing.
23.	Whic	ch refers to the conversion of non-dig	gital ma	aterial to digital form?
		Data security	B)	Digitization

D)

Medical Transcription.

C)

ITES

Stindent Bounty Com Which laws prevent computer crimes in India? A) Cyber B) IT C) Common D) Cracking. Computer ethics has its roots in the work of A) Charles Babbage B) Blaise Pascal C) Norbert Wiener Bjarne Stroutstrup. D) Which one of the following is object oriented programming language? A) C B) C++ C) Pascal D) Visual Basic. A kind of self sufficient 'subprogram' with a specific functional area is called as A) Object B) Class C) Program D) C++. Which is not a C++ keyword? A) auto B) goto C) constant D) const. Which marks the end of a string literal? A) B) '/o' C) '\n' D) '/n'. Which is the conditional operator? A) ? B) C) : ? D)

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3

3

3

Which is the most powerful feature of an object oriented programming

B)

Polymorphism

Inheritance D) Data hiding.

33.

language?

Encapsulation

A)

C)

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Now the derived class should be indicated?

A) Class der_name: visibility mode base class_id

B) Class der_name :: visibility mode base class_id

C) Class der_name; visibility mode base class_id

D) Class der_name, visibility mode, base class_id.

The default visibility mode is

A) private

B) protected

C) public

D) class.

Which unit enables data storage and management?

A) Archive

B) Memoframe

C) Projection TV

D) Robot.

Operator functions must be

A) member function

B) friend function

C) either (A) or (B)

D) function.

8. Integral promotions are purely

A) compiler oriented

B) computer oriented

C) data oriented

D) program oriented.

39. Which function initializes the class object ?

A) Constructor

B) Destructor

C) Main()

D) User defined.

40. Which constructor is executed when an object is passed by reference to constructor?

A) Default

B) Copy

C) Parameterized

D) Non-parameterized.

41. Which is an application that allows you to send and receive messages over cell phones?

A) SMS

B) MMS

C) SSM

D) MSS.

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float b:

inta;b;

D)

[Turn over

6

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59. Which creates object files from so	
A) Computer	The state of the s
C) Compiler	B) C++
60. What is the error thrown by the co	D) Program.
if (a > b);	implier for the following snippet
cout << "Greater" ;	
else	super computers
cout << "Lesser";	mainframe computers
A) Misplaced if	B) Misplaced else
C) Misplaced if else	B) Misplaced else D) Misplaced else if.
61. An array in C++ is	P-1000 CISC II.
A) user defined data type	B) built-in-data type
C) derived data type	D) default data type
62. The array subscript always commend	ces from
A) 1	B) - 1
C) 0	D) 100.
63. Strings are otherwise called as	italia and Register
A) characters	B) names
C) literals	D) constants
64. Which binds the data and its associate	ed functions together?
A) Object	B) Class
C) Program	D) Method.
65. Which members can be accessed from	outside the class also ?
A) Private	B) Protected
C) Public	D) Static.
66. To create a new presentation using a te	mplate, press
A) Alt + Shift + N	B) Shift + Ctrl + N

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Alt + F + N.

D)

C)

Shift + N

To start a slide presentation, press

F1 A)

F2 B)

F11 C)

F5.

To change the slide background, choose

- File \rightarrow Page \rightarrow Background A)
- Format → Page → Background B)
- Edit \rightarrow Page \rightarrow Background C)
- D) View \rightarrow Page \rightarrow Background.

In StarOffice Impress, to open the style list the key to be pressed is

F1 A)

B)

F11 C)

F5 . D)

To print in StarOffice, the key combination to be pressed is

Alt + PA)

Alt + F + PB)

Ctrl + P C)

Ctrl + F + P. D)

Which bar is used to display the current cell and its contents?

Function

Object B)

Formula C)

Scroll. D)

Default data format is

dd/mm/yy A)

mm/dd/yy B)

yy/mm/dd

dd/yy/mm. D)

Fill command is available under which menu?

File A)

Format B)

Edit C)

Help. D)

74. Which are predefined formula that are available in StarOfficeCalc?

Functions A)

Wizards B)

Cell address C)

Formats. D)

Which icon is used to insert objects from other application into a worksheet?

Insert Formula A)

Insert Floating Frame B)

Insert Applet C)

Insert OLE Object. D)

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PART - II

Answer any twenty questions in one or two sentences each:

 $20 \times 2 = 40$

93.

94

95

96

76. Define Text editing.

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- 77. How to create a header?
- 78. What is date arithmetic? Explain.
- 79. Explain how to generate the series:

33, 30, 27, ... 3.

- 80. What is a database?
- 81. Explain how to use Autofilter.
- 82. What is inline sound and video?
- 83. Define Morphing.
- 84. What are Rehearse Timings?
- 85. How to rename a slide?
- 86. Define Encapsulation.
- 87. What is meant by type definition?
- 88. What is the impact of modifiers?
- 89. If x = 10, f = 20, c = x +++++f;

What is the value stored in the variable?

c is f is f is

- 90. Write down the syntax of the following:
 - i) if else
 - ii) do while.

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- 91. What are the advantages of functions?
- 92. What is the use of stremp()?
- 93. Write down the syntax of a 2D array declaration. Write an example.
- 94. How is memory allocated to an object of a class?
- 95. List the specifications of a class.
- 96. How are functions invoked in function overloading?
- 97. Write down any four rules for definition and usage of destructor.
- 98. What are the types of inheritance?
- 99. Define virus.
- 100. What is a call centre?

PART - III

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

 $7 \times 5 = 35$

- 101. How to create bullets and numbered lists?
- 102. Explain the functoins of any 10 icons of the Table formatting tool bar.
- 103. Explain how to create charts in worksheet.
- 104. List and describe the other features available with spreadsheet software in addition to its ability to calculate numbers.
- 105. Write any five advantages of computerized data processing.
- 106. Explain switch statement with a suitable example.
- 107. Explain call by value with an example.
- 108. Explain function overloading with an example.

Turn over

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109. Write the output of the following c++ program:
    #include<iostream.h>
   #include<conio.h>
   class add
   int num1, num2, sum;
   public:add()
   clrscr();
   cout << "\n constructor without parameters";
   num1=0:
  num2=0:
  sum=0;
  add(int s1,int s2)
  cout << "\n parameterised constructor....";
  num1=s1;
  num2=s2;
  sum=NULL;
 void getdata()
 cout << "\n enter the data....";
 cin>>num1>>num2;
 void addition(add b)
 sum=num1+num2 + b.num1+b.num2;
 void putdata()
 cout << "\n the numbers are...";
cout << num 1 << '\t' << num 2;
cout << "\n the sum of the numbers are" << 't' << sum;
};
void main()
add a,b(10,20);
a.getdata();
a.addition(b);
cout << "\n object a:";
a.putdata();
getch();
```

```
0. Debug the errors in the following c++ program:
```

```
clude < iostream.h>
  ass A
  ivate:
       int al;
  ublic:
       int a2;
 rotected:
       int a3;
 class B:public A
public:
void func()
        int b1,b2,b3;
       b1=a1;
       b2=a2;
       b3=a3;
}
};
void Main()
       B der;
       der.a3 = 0;
       der.func ();
}
}
```

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