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

( English Version )

Time Allowed : 3 Hours ]

[ Maximum Marks : 150

**Instruction :** Check the question paper for fairness of printing. If there is any lack of fairness, inform the Hall Supervisor immediately.

- Note :**
- 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 )
  - The number of the sign '—' ( dash ) as found in the right-hand top corner of the Question Paper ( i.e., 

—
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 (1) or 

— —
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 (2) or 

— — —
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 (3) or 

— — — —
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 (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 correct answer :

75 × 1 = 75

- Illegal access to network or computer system is
 

A) virus	B) cracking
C) piracy	D) theft of computer time.
- ITES stands for
 

A) IT Economic Services	B) IT Educational Services
C) IT Enabled Services	D) IT Entertainment Services.

[ Turn over



10. BPO stands for
- A) Business Program Outsourcing
  - B) Business Project Outsourcing
  - C) Business Process Outsourcing
  - D) Business Plan Outsourcing.
11. The parameter list in function overloading must differ by
- A) number of arguments
  - B) function name
  - C) function size
  - D) number of functions.
12. The operator that can be overloaded is
- A) ::
  - B) .
  - C) sizeof ( )
  - D) +=
13. When a class object comes into scope which function gets executed ?
- A) Destructor
  - B) Polymorphism
  - C) Constructor
  - D) Inheritance.
14. A class can have how many destructor ?
- A) 1
  - B) 2
  - C) 3
  - D) 4.
15. A constructor with parameters is called
- A) default constructor
  - B) parameterized constructor
  - C) non-parameterized constructor
  - D) copy constructor.
16. When the first object of its class is created, what value is initialized to static member variable ?
- A) 1
  - B) 0
  - C) - 1
  - D) NULL.

[ Turn over

17. In C++, objects of a class are declared as \_\_\_\_\_
- A) constants  
B) variables  
C) tag  
D) pointer
18. Members of a class are accessed using which of the following?
- A) colon  
B) dot  
C) scope resolution  
D) semicolon
19. Which is the key feature of object oriented programming?
- A) Encapsulation  
B) Polymorphism  
C) Data hiding  
D) Inheritance
20. Polymorphism is achieved through
- A) function overloading  
B) operator overloading  
C) both (A) and (B)  
D) encapsulation
21. In C++, array is of which data type?
- A) Built-in  
B) User defined  
C) Predefined  
D) Derived
22. `cin>>num[3]` ; reads which element?
- A) Fourth  
B) Third



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31. How many storage specifiers are there in C++ ?
- A) 2
  - B) 3
  - C) 4
  - D) 5
32. Which is a predefined object that corresponds to the standard output stream?
- A) istream
  - B) cout
  - C) cin
  - D) header
33. In C++, which should be declared or defined before the program ?
- A) Datatype
  - B) Variable
  - C) Objects
  - D) Class.
34. In C++, which is a multiple branching statement ?
- A) for
  - B) if
  - C) switch
  - D) while.
35. The variable used in for loop is called
- A) static variable
  - B) counting
  - C) control variable
  - D) for variable
36. Which is a computer based presentation technique that uses graphics and video elements ?
- A) Impress
  - B) Presentation
  - C) Multimedia
  - D) ...

38. The conversion of analog sound waves to digital format is called
- A) Sampling
  - B) Digitization
  - C) Multimedia
  - D) Compression
39. AVI format was developed by
- A) IBM
  - B) Apple
  - C) Macromedia
  - D) Microsoft.
40. Helper application is also called as
- A) plug-in
  - B) multimedia
  - C) video
  - D) audio.
41. Which language is used to query the database ?
- A) C++
  - B) SQL
  - C) HTML
  - D) DBMS.
42. Which key is used to uniquely identify a record in a database?
- A) Primary key
  - B) Secondary key
  - C) Tertiary key
  - D) User key
43. Filter used with a condition is called
- A) Autofilter
  - B) Standard filter
  - C) Conditional filter
  - D) Unconditional filter

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46. The keys used to create a new presentation template are
- A) Ctrl + N
  - B) Ctrl + C
  - C) Shift + N
  - D) Shift + C
47. Which view in StarOffice Impress that allows you to edit the slides ?
- A) Normal
  - B) Outline
  - C) Notes
  - D) Slide sorter
48. Which can be used to specify basic background information for the slides ?
- A) Layouts
  - B) Master page
  - C) Custom animation
  - D) Slide transition
49. Which key is used to assign presentation styles ?
- A) F5
  - B) F7
  - C) F11
  - D) F9
50. Which amongst the following helps the user to move from slide to slide ?
- A) Home + Arrow keys
  - B) Navigator
  - C) Automatic
  - D) Slide sorter
51. Which is a Spreadsheet program ?
- A) StarOffice Impress
  - B) Improve
  - C) Lotus Amipro
  - D) Flash
52. The data source for a presentation is



- 54. The reference operator in StarOffice Calc is  
A) !  
B) %  
C) .  
D) &
- 55. A continuous group of cells in a worksheet is called  
A) formula  
B) range  
C) rows  
D) columns
- 56. Which communicates with one another by sending data  
A) Class  
B) Overload  
C) Data  
D) Objects
- 57. Which provides security to data ?  
A) Polymorphism  
B) Data hiding  
C) Inheritance  
D) Data structure
- 58. C++ was developed by  
A) Dennis Ritchie  
B) Charles Stroustrup  
C) Bjarne Stroustrup  
D) Napier
- 59. The escape sequence '\n' stands for  
A) Backspace  
B) Line feed  
C) Tab  
D) Bell sound

62. Facility by which users can define their own sop
- A) Primitive data type
  - B) Built-in data type
  - C) User-defined data type
  - D) Derived data type.
63. Each row and column in a table represent
- A) Record, Field
  - B) D
  - C) File, Field
  - D) D
64. Which is the process of arranging the data in a ta
- A) Merging
  - B) FI
  - C) Searching
  - D) Sc
65. Which is a printed information that is assembled user supplied criteria ?
- A) Form
  - B) Re
  - C) Chart
  - D) Fo
66. Which is very useful for correcting the spelling words ?
- A) Auto spell check icon
  - B) Rep
  - C) Change all
  - D) Aut
67. Table → Table properties command displays which

69. The default left and right margins in StarWriter is
- A) 1 inch
  - B) 1.5 inches
  - C) 2.25 inches
  - D) 1.25 inches
70. Which is used to calculate and analyze sets of numbers
- A) Spreadsheet
  - B) Formula
  - C) Charts
  - D) Function
71. Text document can be created using
- A) StarOffice Calc
  - B) StarOffice Writer
  - C) StarOffice Base
  - D) StarOffice Impress
72. To move the insertion point to the beginning of the line
- A) End key
  - B) Home key
  - C) Up arrow key
  - D) Down arrow key
73. Which of the following is true, to change the fonts in StarOffice Writer
- A) Format → Character
  - B) Insert → Font
  - C) View → Font
  - D) Format → Font
74. One way to set off a list of points or topic in a document

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Answer any *twenty* questions in *one* or *two*

76. What is meant by hanging indent ?
77. How to create bullets and numbered lists ?
78. Define function. How to insert them in worksheet ?
79. Write a short note on types of cell address.
80. Define database.
81. What is a filter ? What are the different types of filters in
82. List the steps in 3-D animation.
83. List any four popular multimedia formats.
84. Define morphing and warping.
85. Explain how to create a custom slide show.
86. Define encapsulation.
87. What is a data type in C++ ? What are the different dataty
88. Define pointer variable. How to declare a pointer variable i
89. Write C++ equivalent expressions using the *condit*

93. Write a note on memory representation of array.
94. What does a class comprise ?
95. Write the general form of a class.
96. Define operator overloading.
97. Give two rules for constructor definition and usage.
98. List the types of inheritance.
99. What are meant by emotion containers ?
100. Define computer ethics.

**PART - III**

Answer any *seven* of the following questions in *five to ten*

101. How to find and replace text in StarOffice Writer ?
102. Explain how to change margins using ruler in StarWriter.
103. Explain the fill command in detail.
104. How to create chart in StarOffice Calc ?

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109. Write the output for the following C++ code:

```
#include<iostream.h>
#include<conio.h>
class base
{
    public:
    base( )
    {
        cout<<"\nconstructor of base class";
    }
    ~base( )
    {
        cout<<"\ndestructor of base class";
    }
};
class derived:public base
{
    public:
    derived( )
    {
        cout<<"\nconstructor of derived";
    }
    ~derived( )
    {
        cout<<"\ndestructor of derived";
    }
};
class derived2:public base
{
    public:
    derived2( )
    {
        cout<<"\nconstructor of derived2";
    }
};
```

110. Debug the following C++ program :

```
@include<iostream.h>
class add
{
int sum;
protected:
int num1; num2;
public:
void add( );
{
num1=num2=sum=0;
cout<<"add constructor ;
}
void accept( );
{
num1=12;
num2=14;
}
void plus( );
{
sum=num1+num2;
cout<<sum;
}
class subtrac( )
{
int sub;
public:
void subtract( );
{
sub=0;
cout<<"subtract constructor
void minus( );
{
add:accept( );
sub=num1-num2;
```