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Part III — COMPUTER SCIENCE

(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 correct answer :

75 × 1 = 75

1. To draw lines and circles in a worksheet click the icon

A) Insert picture	B) Insert special character
C) Show draw functions	D) Insert chart.
2. Which involves data collection, verification, validation and report generation ?

A) Data	B) Data processing
C) Database	D) Table.

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3. Each database column represents
- A) File
B) Record
C) Field
D) Character.
4. In which Computers Hierarchical Database structures were used ?
- A) Mini
B) Micro
C) Mainframe
D) Super.
5. How many field types are there in StarOffice base ?
- A) 17
B) 13
C) 15
D) 20.
6. The mechanism by which the data and functions are bound together within an object definition is called
- A) Object
B) Encapsulation
C) Polymorphism
D) Inheritance.
7. What is the name for the process of acquiring the Base class properties ?
- A) Inheritance
B) Encapsulation
C) Function
D) Polymorphism.
8. Which brace is used to enclose the body of the C++ program ?
- A) ()
B) < >
C) {}
D) [].
9. In the following which defines Local variable ?
- A) Auto
B) Static
C) Extern
D) Register.
10. The range of signed int data type is
- A) - 128 to 127
B) 0 to 255
C) - 32768 to 32767
D) 128 to - 127.

11. Which is the default access specifier in the class ?
- A) Private
B) Public
C) Protected
D) None of these.
12. Which is referred as key feature of object oriented programming ?
- A) Data riding
B) Encapsulation
C) Data hiding
D) Data members.
13. The static member variable is initialized to
- A) 0
B) 1
C) True
D) False.
14. Which access specifier is accessible by members of inherited class ?
- A) Private
B) Protect
C) Protected
D) Class.
15. The functionality of '+' operator can be extended to strings through
- A) function overloading
B) operator overloading
C) inheritance
D) class.
16. Presentations can be created using
- A) StarOfficeWriter
B) StarOfficeCalc
C) StarOfficeImpress
D) StarOfficeBase.
17. Which is a word processor ?
- A) StarOfficeBase
B) StarOfficeWriter
C) StarOfficeImpress
D) StarOfficeDraw.

18. In StarOfficeWriter, under which menu all the formatting options are available ?
- A) File
B) Edit
C) View
D) Format.
19. Which can be used to call attention to key ideas ?
- A) Formatting
B) Highlighting
C) Bullets and Numbers
D) Indenting.
20. The command to open a spell check dialog box is
- A) Edit - Spelling - Check
B) Tools - Spelling - Check
C) Edit - Check - Spelling
D) Tools - Check - Spelling.
21. 'Improve' spreadsheet was developed by
- A) Lotus Corporation
B) Microsoft
C) Apple
D) Borland.
22. Spreadsheet accepts the date format as
- A) DD/MM/YY
B) MM/DD/YY
C) YY/MM/DD
D) YY/DD/MM.
23. Which of the following is reference operator ?
- A) &
B) ^
C) .
D) =
24. A continuous group of cells in a worksheet is called
- A) Record
B) Range
C) Group
D) Sheet.

25. Which are referred to as predefined formulae ?
- A) Functions B) Charts
C) Objects D) Cell address.
26. Which shows special views of the data in a table ?
- A) Queries B) Forms
C) Reports D) Filters.
27. What is the name of the process for joining data from two or more tables ?
- A) Joining B) Editing
C) Merging D) Adding.
28. Expansion of SQL is
- A) Structured Query Language
B) System Query Language
C) System Query List
D) Structured Query List.
29. Data comes from the word
- A) Datas B) Datum
C) Datus D) Datem.
30. Which of the following options is used to remove the filter ?
- A) Remove filter B) Delete filter
C) Remove filter/sort D) Delete filter/sort.
31. What will be the size of an array `int sales [2] [4] ?`
- A) 24 bytes B) 8 bytes
C) 16 bytes D) 6 bytes.

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40. Which key combination is used to print slides in StarOffice ?
- A) Alt + P
B) Shift + P
C) Ctrl + P
D) Shift + Ctrl + P.
41. Which of the following cannot be overloaded ?
- A) Operator
B) Destructor
C) Function
D) Constructor.
42. The overloaded operator must have at least one operand of
- A) built-in type
B) user-defined type
C) array
D) derived.
43. The name of the constructor must be same as
- A) class name
B) member function
C) object name
D) data member.
44. Which of the following gets executed when a class goes out of a scope ?
- A) Pointer
B) Destructor
C) Constructor
D) Member function.
45. Which removes the memory of an object which was allocated by the constructor ?
- A) Constructor
B) Object
C) Destructor
D) Overloading.
46. Which operator returns the size of memory requirement in terms of bytes ?
- A) Pointer
B) Size of
C) Void
D) Typedef.

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54. In a text document, the area at the top of the page is called as
- A) Footer
 - B) Header
 - C) Page number
 - D) None of these.
55. Which is the first electronic spreadsheet ?
- A) Improve
 - B) VisiCalc
 - C) Excel
 - D) Lotus 1-2-3.
56. GIF stands for
- A) Graphic Interchange Format
 - B) Graphic Inter Format
 - C) Graphic Interchange Form
 - D) Group Interchange Format.
57. Conversion of analog sound waves to a digital format is called
- A) Sound forge
 - B) Sampling
 - C) Morphing
 - D) Warping.
58. Files in the Quick Time format have the extension
- A) .wmv
 - B) .mov
 - C) .wav
 - D) .swf.
59. Which is not in the step process of creating a 3D animation ?
- A) Modelling
 - B) Moving
 - C) Animating
 - D) Rendering.
60. Shockwave format was developed by
- A) Microsoft
 - B) Apple
 - C) Macromedia
 - D) IBM.

68. What refers to the conversion of non-digital material to digital form ?
- A) Transcription B) Tele-medicine
C) Digitization D) Data Management.
69. Which of the following is not an IT enabled service ?
- A) Reservation B) e-Governance
C) Tele-medicine D) Data management.
70. A self-replicating program that damages data and files stored on the computer is called
- A) Software B) Data Management
C) Virus D) e-Governance.
71. How many destructors can be given in a class ?
- A) 1 B) 2
C) 3 D) 0.
72. In inheritance, the newly created classes from the base class are
- A) base class B) derived class
C) super class D) void class.
73. Which operator is used while defining a derived class ?
- A) : B) ;
C) :: D) .
74. Access specifier is also referred to as
- A) derived B) base
C) visibility mode D) derived members.
75. Which permits banking from the comfort of the home by using Internet ?
- A) Call centres B) e-banking
C) e-shopping D) e-cards.

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PART - II

Answer any *twenty* questions in *one* or *two* sentences each : $20 \times 2 = 40$

76. How will you correct mistakes in StarOfficeWriter ?
77. What is the use of auto correct option ?
78. Write the Spreadsheet applications.
79. What is date arithmetic ?
80. What distinguishes information from data ?
81. How will you copy Text and objects between StarOffice application using Drag-and-drop ?
82. What are the classifications of 2D animation ?
83. Name the special softwares used in the multimedia content.
84. What is the use of slide sorter view ?
85. How will you change slide background ?
86. Define object.
87. Write the classification of Tokens.
88. Which operators are specific to C++ ?
89. What are pointer variables ?
90. Write the rules for the formation of nested loops.
91. Define inline functions.
92. What is the purpose of strlen() function ?
93. How will you declare two dimensional array ?
94. What is data abstraction ?
95. How are the class members accessed ?
96. List out the operators that cannot be overloaded.
97. Write the functions of constructor.
98. What is an abstract class ?
99. What is Medical Transcription ?
100. Write the benefits of data digitization.

PART - III

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

7 × 5 = 35

101. Explain creating header and footer and adding remarks and page numbers in a text document.
102. Write the steps to be followed to find and replace a given text.
103. How will you insert rows and columns in a spreadsheet ?
104. What are the formatting options available in StarOfficeCalc ?
105. Explain manipulation of a database.
106. Explain if... and switch statements.
107. Write about call by value, call by reference in functions.
108. List the rules for overloading operators.
109. Write the output of the following C++ program :

```
#include<iostream.h>
#include<conio.h>
class simple
{
    private :
        int a, b ;
    public :
        simple ( )
        {
            a = 0 ;
            b = 0 ;
            cout << "\n Welcome" ;
        }
        ~ simple ( )
        {
            cout << "\n Good Bye" ;
        }
        void getdata ( )
```

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```

    {
        cout<<"\n Values of a and b are 5 and 6" ;
        a = 5 ; b = 6 ;
    }
    void putdata()
    {
        cout<<"\n The two integers are"<<a<<"\t"<<b ;
        cout<<"\n The sum is"<<a + b ;
    }
};
void main()
{
    simple s ;
    s.getdata() ;
    s.putdata() ;
}

```

110. Debug the errors in the following C++ program :

```

#include<iostream.h>
#include<conio.h>
class base
{
    public
    base
    {
        cout>>"\n Constructor" ;
    }
    base()
    {
        cout<<"\n Destructor" ;
    }
};
class derived 2 ? public base
{
    public :

```

```
derived( )
{
    cout<<"\n Derived Constructor" :
}
~ derived( )
{
    cout<<"\n Derived Destructor" ;
}
};
void main[ ]
{
    derived x
}
```

Output :

```
Constructor
Derived Constructor
Derived Destructor
Destructor
```
