1606

Register
Number

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

75 × 1 = 75

Choose the correct answer :

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.

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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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32. The array subscript always commences from

   A) 1   B) 0

   C) – 1   D) 10.

33. Which function compares the two given strings ?

   A) Strlen( )   B) Strcpy( )

   C) Strcmp( )   D) Compare( ).

34. What is the way to bind the data and its associated functions together ?

   A) Class   B) Object

   C) Functions   D) Methods.

35. The body of a class is terminated by a

   A) brace   B) semicolon (;)

   C) colon (:)   D) comma (,).

36. To create a new presentation using a template press

   A) Ctrl + Shift + M   B) Shift + Ctrl + N

   C) Shift + N   D) Ctrl + N.

37. Which view is allowed to create and edit slides ?

   A) Outline view   B) Notes view

   C) Normal view   D) Master page.

38. To change the slide order, in the switching presentation view tab click

   A) Slide sorter   B) Layouts

   C) Outline   D) None of these.

39. To produce HTML presentation, choose

   A) File – HTML   B) File – Export

   C) Edit – Export   D) Edit – HTML.

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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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47. Which statement creates branches for multiple alternative sections of code depending on a value ?

A) If-else

B) Continue

C) Break

D) Switch.

48. Every action block in the Switch Statement should be terminated with

A) case

B) colon (:)

C) break

D) continue.

49. Which is exit-check loop ?

A) For

B) While

C) Do-while

D) None of these.

50. Machine readable form of a program is called

A) Source code

B) Object file

C) Compiler

D) Executable file.

51. Which of the following is pressed to resize the column without changing the width of the table in text document ?

A) Alt + Ctrl

B) Alt

C) Ctrl

D) Shift.

52. The command used to delete the selected table in StarOfficeWriter is

A) Delete – Table

B) Table – Delete – Table

C) Format – Table – Delete

D) None of these.

53. Margins can be changed using

A) page style dialog box

B) ruler

C) both (A) and (B)

D) table format dialog box.

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.

61. Statement used in C++ to display messages and result is

   A) print   B) println

   C) cout   D) cin.

62. Which are the channels through which data flow from the call statement to the function ?

   A) Function Name   B) Parameters

   C) Values   D) Return.

63. In which method any change in the formal parameter is not reflected back to the actual parameter ?

   A) Call by value   B) Call by reference

   C) Both (A) and (B)   D) Call by function.

64. Which function executes faster but requires more memory space ?

   A) Void   B) Main

   C) Inline   D) Online.

65. Which variable is defined within a block ?

   A) Local   B) Function

   C) File   D) Class.

66. What is useful in computer based education ?

   A) CBT   B) e-shopping

   C) Transcription   D) Teaching.

67. Which is used for customer-related functions ?

   A) e-shopping   B) e-banking

   C) e-mail   D) Call centres.

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 × 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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```cpp
        {
            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 :

```cpp
#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
```

―――――――――――

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

Output :

Constructor
Derived Constructor
Derived Destructor
Destructor