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Part III — Vocational Subjects**COMPUTER SCIENCE**

(New Syllabus)
(English Version)

Time Allowed : 3 Hours]

[Maximum Marks : 150

- 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 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 × 1 = 75

- The statement that creates multiple branches, depending on the value of a single variable is

A) do-while	B) switch
C) if	D) while.
- The default return data type of a function, if no data type is explicitly mentioned is

A) int	B) char
C) float	D) double.

[Turn over

3. The function strcpy (S1, S2)

- A) copies S1 to S2 .
- B) copies S2 to S1
- C) appends S1 to end of S2
- D) appends S2 to end of S1.

4. Which of the following is NOT true, related to functions ?

- A) The actual parameters can be passed in the form of constants to the formal parameters of value type
- B) The actual parameters can be passed only as variables to formal parameters of reference type
- C) The default value in the formal parameters can be given in the form of variable initialization .
- D) The default value for an argument can be given in between the argument list.

5. In the following code, the scope of the variable a is

```
if ( x < y )  
{  
    int a ;  
    a ++ ;  
}
```

- A) Local scope
- B) Function scope
- C) File scope
- D) Class scope.

6. Which of the following is not a valid class access specifier ?

- A) Private
- B) Public
- C) Protected
- D) Pointer.

7. The members of a class are accessed using the operator

- A) +
- B) . (dot)
- C) <
- D) >

8. The variable that is initialized only when the first object of the class is created is
- A) static
B) private
C) public
D) protected.
9. The class access specifier used to access friend function is
- A) private
B) public
C) protected
D) both (B) and (C).
10. SQL stands for
- A) Structured Query Language
B) Sorted Query Language
C) Sorted Question Language
D) Structured Question Language.
11. Filter used with a condition is called
- A) Auto Filter
B) Default Filter (Standard filter)
C) Conditioned Filter
D) Unconditioned Filter.
12. The field type that is not allowed by StarOfficeBase is
- A) Text
B) Binary
C) Project
D) Image.
13. The Computers that primarily use the Hierarchical database are
- A) Super
B) Mainframe
C) Personal
D) Mini.
14. To send text outline into presentation, select
- A) File → Send → Outline to presentation
B) File → Outline to presentation
C) File → Presentation
D) File → Send → Presentation.
15. If the length of the document is more than the width, the orientation is called as
- A) Layout
B) Landscape
C) Portrait
D) Margin.
16. Which of the following keys is pressed to move backward through the cells of a StarOfficeWriter table ?
- A) Ctrl + Tab
B) Shift + Tab
C) Enter + Tab
D) ESC + Tab.

17. In StarOfficeWriter, the page preview option is available under the menu,
- A) Format
B) Edit
C) File
D) View.
18. To add a row after the last row of the table in StarOfficeWriter, the key pressed is
- A) Tab
B) Shift
C) Alt
D) Ctrl.
19. The active cell in a spreadsheet is identified by
- A) Insertion pointer
B) Cell pointer
C) Mouse pointer
D) Keyboard pointer.
20. CBT stands for
- A) Computer Based Tutorials
B) Computer Based Tools
C) Computer Based Techniques
D) Coded Binary Tools.
21. A facility that allows the user to speak into a special device while typing a letter using computer is called
- A) Cellphone
B) Telephone
C) Dictaphone
D) Speaker.
22. BPO may be expanded as
- A) Business Publication Online
B) Business Process Outsourcing
C) Business Publication Outsourcing
D) Business Process Online.
23. A self replication program that can cause damage to data and files stored on the computer is
- A) virus
B) antivirus
C) language
D) none of these.
24. The illegal access to the computer hardware and software is
- A) Hacking
B) Cracking
C) Chatting
D) Browsing.

25. A template for entities that have common behaviour is
- A) class
B) object
C) methods
D) attributes.
26. Which of the following is an Object Oriented Programming language ?
- A) C++
B) C
C) BASIC
D) FORTRAN.
27. Which of the following is not a C++ keyword ?
- A) this
B) new
C) cont
D) if
28. `int a, b, c ;`
`a = 6 ;`
`b = 7 ;`
`c = (a ++) - (-- b) ;`
`cout << c ;`
- The output of the above code, when it is executed is
- A) 0
B) 9
C) 11
D) error.
29. The constant that should not have fractional part is
- A) Float
B) Double
C) Integer
D) Exponent.
30. When an object is passed by reference to constructor, the constructor that is executed is
- A) copy
B) static
C) default
D) inline.
31. The process of creating new classes from the existing class is
- A) Polymorphism
B) Encapsulation
C) Inheritance
D) Abstract.

43. JPEG may be expanded as
- A) Joint Photographic Experts Group
 - B) Joint Physical Experts Group
 - C) Joint Physical Experts Group
 - D) Joint Photographic Experts Group.
44. Which of the following is the commercial multimedia content development software ?
- A) Flash
 - B) Dream Weaver
 - C) Maya
 - D) All of these
45. AIFF format was developed by
- A) Real Networks
 - B) Apple
 - C) IBM
 - D) Microsoft.
46. Which of the following is not a word processor ?
- A) StarWriter
 - B) Note pad
 - C) MSWord
 - D) WordStar.
47. The key used to delete the character to the left of the insertion point is
- A) Backspace
 - B) Delete
 - C) Space Bar
 - D) Enter.
48. Each time when increase indent icon is clicked, the Paragraph is indented by
- A) 1 inch
 - B) $\frac{1}{2}$ inch
 - C) $\frac{1}{4}$ inch
 - D) 2 inches.
49. The shortcut key used to move to the beginning of a document is
- A) Shift + Home
 - B) Home + Enter
 - C) Ctrl + B
 - D) Ctrl + Home.
50. The key pressed to select the spelling command is
- A) F7
 - B) F1
 - C) F9
 - D) F5.

51. Which of the following icons is used to generate a scrolling screen within a Worksheet ?
- A) Insert Plug-in
B) Insert Floating frame
C) Insert OLE object
D) Insert Chart.
52. The term data is derived from the word
- A) Datum
B) Datern
C) Datas
D) Datus.
53. A column in a StarOfficeBase table represents a
- A) Structure
B) File
C) Field
D) Record.
54. The key that uniquely identifies a record in a database is
- A) Primary key
B) Secondary key
C) Record key
D) Unique key.
55. The process used to select the desired and specific data from a database is
- A) Merging
B) Sorting
C) Editing
D) Searching.
56. The modifier that allows the variable to exist in the memory of the computer, even after losing its scope is
- A) Auto
B) Static
C) Extern
D) Global.
57. The operator >> is called as
- A) Extraction operator
B) Insertion operator
C) Abstraction operator
D) Stream operator.
58. A preprocessor directive starts with the symbol
- A) %
B) \
C) \$
D) #
59. Which of the following is an entry check loop ?
- A) Do-while
B) Switch
C) While
D) If.

60. A program written in high level language is called as
- A) Object code
 - B) Source code
 - C) Executable code
 - D) All of these.
61. An integer array with indexes from 0 to 4, all having value 1 may be declared and initialized as
- A) `int x [4] = { 1 };`
 - B) `int x [4] = { 1, 1, 1, 1 };`
 - C) `int x [5] = { 1, 1, 1, 1, 1 };`
 - D) `int x [] = { };`
62. The size of the array must always be
- A) positive
 - B) negative
 - C) float
 - D) double
63. The collection of variables of the same type referenced by a common name is
- A) function
 - B) array
 - C) structure
 - D) pointer.
64. Every class declaration is terminated by
- A) , (comma)
 - B) . (dot)
 - C) :: (double colon)
 - D) ; (semicolon).
65. Which of the following statements is NOT true ?
- A) Member functions can be of static type
 - B) The return type of a member function cannot be of object data type
 - C) A non-member function cannot access the private data of a class
 - D) Several different classes can use the same function name.
66. In presentation the view that allows us to view miniature images of all the slides is
- A) Slide sorter
 - B) Master page
 - C) Notes view
 - D) Layout.
67. Which of the following is used to import objects from other application into a presentation ?
- A) Insert ODBC object
 - B) Insert OLEDB object
 - C) Insert OLE object
 - D) Insert DBMS object.

68. The shortcut key for opening style list is
- A) F8
B) F7
C) F5
D) F11.
69. To change the background colour of the current slide, click on
- A) Format → Page → Background
B) Tools → Page → Background
C) Edit → Page → Background
D) View → Page → Background.
70. The key combination used to open print dialog box in StarOfficeImpress is
- A) Ctrl + Shift + P
B) Ctrl + P
C) Shift + P
D) Alt + P.
71. The intersection of rows and columns in a spreadsheet is called as
- A) Cell
B) Row intersect
C) Grid
D) Column intersect.
72. A formula in spreadsheet always begins with
- A) +
B) -
C) ^
D) =
73. Which of the following operators combines two texts ?
- A) +
B) &
C) ||
D) =
74. The function used to find the square root of a number in StarOfficeCalc is
- A) SQR
B) SQT
C) SQRT
D) SRT.
75. The cells A4, A5, A6, B4, B5 & B6 are referred in a Worksheet as
- A) A4 : B6
B) A1 : B6
C) A1 : A6 : B1 : B6
D) A4 : A6 ; B4 : B6.

PART - II

Answer any *twenty* questions in *one* or *two* sentences each :

20 × 2 = 40

76. What are the steps in creating "Bulleted list" in a StarOfficeWriter document ?
77. How will you create a header in a StarOfficeWriter document ?
78. What is the difference between absolute cell referencing and relative cell referencing ?
79. What do you mean by date arithmetic in StarOfficeCalc ?
80. What are the steps involved in data processing ?
81. Write a note on reports in StarOfficeBase.
82. Write a note on inline sound and video.
83. What are the uses of morphing ?
84. What is the use of master page in presentation ?
85. How will you create handouts in StarOfficeImpress ?
86. Define Object.
87. Explain conditional operator with example.
88. Give any two uses of void data type.
89. Write about the impact of modifiers in C ++.
90. Find the errors in the following C++ program snippets :

```
Switch ( x )
{
    case 1 to 2 :   Cout << "One" << "Two" ;
                  break
    case 3 to 4 :   Cout << Three << Four ;
                  break :
};
```

91. Write a note on inline functions.
92. What is meant by array of characters ?
93. Explain the memory representation of 2-D arrays.
94. Write the characteristics of member functions.

95. Write a note on array of objects.
96. How are the functions 'invoked in function overloading' ?
97. Write the rules for constructor definition and usage.
98. What are the different types of inheritance ?
99. What is meant by e-learning ?
100. List out the Common Computer Crimes.

PART - III

Answer any seven questions in five to ten sentences each : 7 × 5 = 35

101. Draw and explain the various icons available in table formatting toolbar in a StarOfficeWriter document.
102. Give the steps involved in replacing a given text in a StarOfficeWriter document.
103. How will you insert chart in a Worksheet ?
104. What is a function ? How will you use it in a Worksheet ? Give an example.
105. How can a database be queried in StarOfficeBase ?
106. Discuss about the general working of for loop in C++.
107. What are the different ways of passing parameters in C++ functions ?
108. What are the various rules while overloading operators in C++ ?
109. What is the output of the following C++ program ?

```
#include<iostream.h>
#include<conio.h>
class simple
{
private :
    int a, b ;
public :
    simple ( int x, int y )
    {
        a = x ;
        b = y ;
```

```

    }
    ~ simple( )
    {
        cout<<"Destructor" ;
    }
void putdata( )
{
    cout<<"A="<<a<<"\n" ;
    cout<<"B="<<b ;
}
};
void main( )
{
    clrscr( ) ;
    simple s ( 5, 6 ) ;
    s.putdata( ) ;
    getch( ) ;
}

```

110. Debug the errors in the following C++ program to get the given output :

Output :

3
4
5

```
#include<iostream.h>
```

```
class A
```

```
{
```

```
    private
```

```
    int a ;
```

```
    public ;
```

```
int a2 ;
void getdata( )
{
    a1 = 3 ;
    a2 = 5, a3 = 5 ;
}
protected
    int a3 ;
}
class B::public A( )
{
    public :
    void func( )
    {
        int b1 ; b2 ; b3 ;
        getdata( ) ;
        b1 = a1 ;
        b2 = a2 ;
        b3 = a3 ;
        cout << b1 << b2 << b3 ;
    }
}
void main( )
{
    B der ;
    d.func( ) ;
}
```