

# 12<sup>th</sup> Std HIGHER SECONDARY HALF YEARLY EXAMINATION - 2017

Time Allowed : 3 Hours ]

## COMPUTER SCIENCE

[Marks : 150

### PART - I

Choose the most suitable answer from the given four alternatives and write the option code and the corresponding answer. 75x1=75

1. The shortcut key used to move to the beginning of the document in StarOffice Writer.  
(A) Shift+Home (B) Home+Enter (C) Ctrl+B (D) Ctrl+Home
2. In StarOffice Writer in which box of find and replace dialog box, one has to enter the replacement word or phrase ? (A) Find (B) Replace All (C) Replace (D) Replace With
3. In StarOffice Writer font size is measured in :  
(A) points (B) inches (C) millimeters (D) centimeters
4. In StarOffice Writer, while typing the document, words that do not match in the dictionary are underlined with a squiggly what color line? (A) Yellow (B) Blue (C) Black (D) Red
5. Which is the default line spacing option of a document in StarOffice Writer ?  
(A) Double (B) Proportional (C) Single (D) At least
6. In StarOffice Writer, which one of the following is used to move backward through the cells in a table?  
(A) Tab (B) Shift+Tab (C) Alt+Tab (D) Esc
7. In StarOffice Writer, the command used to insert more than one row in a table.  
(A) Insert → Table → Rows (B) Insert → Rows (C) Table → Insert → Rows (D) Table → Rows
8. In StarOffice Writer, which one of the following in the file menu can be used to see the changes in the document ? (A) Page Preview (B) Preview (C) Print Preview (D) Page View
9. In StarOffice Writer, if the ruler is not displayed in the screen, which one of the following is selected ?  
(A) File → Ruler (B) Edit → Ruler (C) Format → Ruler (D) View → Ruler
10. In StarOffice Calc, the bar used to display the current cell and its contents is :  
(A) Menu bar (B) Object bar (C) Formula bar (D) Function bar
11. Which is the inequality symbol in StarOffice Calc ? (A) <= (B) >= (C) <> (D) !=
12. Which option under Format Menu is selected to print the worksheet with grid lines in StarOffice Calc?  
(A) Page (B) Print (C) Preview (D) Ruler
13. VisiCalc has how many columns and rows ? (A) 36, 254 (B) 254, 63 (C) 63, 254 (D) 256, 36
14. Improve spreadsheet was developed by : (A) Microsoft Corporation  
(B) Borland International (C) LOTUS Corporation (D) IBM systems
15. In StarOffice Calc, the syntax of formula begin with which sign ?  
(A) ^ (caret) (B) \* (multiplication) (C) = (equal) (D) /(division)
16. In StarOffice Calc, worksheet, to begin with the cell pointer is always in which cell ?  
(A) BA (B) A1 (C) AB (D) 1A
17. A feature for displaying and browsing a selected list or subset of records from a table.  
(A) Editing the database (B) Sorting (C) Report Generation (D) Filtering
18. How many different field types are there in StarOffice Base ?  
(A) 10 (ten) (B) 20 (twenty) (C) 15 (fifteen) (D) 25 (twenty five)
19. Which database is primarily used on mainframe computer ?  
(A) Flat-file (B) Relational (C) Hierarchical (D) Object - Oriented
20. In StarOffice Base, to create table select Table Design from which menu ?  
(A) Insert (B) Edit (C) Format (D) File
21. Which language is used to query the database ? (A) LOTUS (B) SQL (C) HTML (D) BPO
22. Which is defined as a set of processed data that convey the relationship between data considered ?  
(A) Operator (B) Operand (C) Information (D) Punctuator
23. The entire collection of related data items in one table is : (A) File (B) Record (C) Information (D) Field
24. How many general categories are there in DBMS data management tasks?  
(A) four (B) three (C) two (D) six
25. Which command is used to insert a calc cell range into a text document ? (A) Edit → Paste Special  
(B) Edit → Cut (C) Edit → Special Paste (D) View → Paste Special
26. Which is not a step in 3D animation ?  
(A) Rendering (B) Modeling (C) Animating (D) Virtual Reality
27. The special hardware to improve the efficiency in the display of images. (A) Vector Cards  
(B) Vector General Cards (C) Vector Graphics Cards (D) Vector Image Cards
28. In which year Real Audio/Real Video format was developed ?  
(A) 1982 (B) 1995 (C) 1994 (D) 1981
29. GIF is limited to how many bit palette ? (A) 8 (B) 16 (C) 24 (D) 32
30. Which company developed ShockWave format ?  
(A) IBM (B) Microsoft (C) Macromedia (D) Apple
31. In StarOffice Impress, to rename a slide, choose : (A) Slide → Rename Slide  
(B) Slide → New Slide (C) Slide → Rename (D) Slide → Slides Rename



32. In StarOffice Impress, to change slide background, which one of the following is not an option in Fill type?  
 (A) Gradient (B) Box (C) Hatching (D) Bitmap
33. In StarOffice Impress, which command is used to open Navigator ?  
 (A) File 'I Navigator (B) Tools 'I Navigator  
 (C) Edit 'I Navigator (D) Insert 'I Navigator
34. Which option allows you to manually control the transition of slides using options such as mouse clicks? (A) Show Logo (B) Effect (C) Automatic (D) Default
35. Which page allows you to add or modify the animation effects to the elements of a slide ?  
 (A) Master Page (B) Layouts (C) Custom Animation (D) Slide Transition
36. Which is a template for entities that have common behaviour ?  
 (A) Class (B) Object (C) Method (D) Attributes
37. Which data type allows programs to organize as objects that contain both data and functions ?  
 (A) array (B) class (C) reference (D) object
38. 

```
int a, b, c;
a=5;
b=6;
c=(a++)-(--b);
cout<<c;
```

 The output of the above snippet, when it is executed is : (A) 5 (B)1 (C) 11 (D) 0
39. Which one of the following is used to declare a generic pointer ?  
 (A) int (B) char (C) void (D) float
40. In C++, which nongraphic character is used to represent horizontal tab ?  
 (A) \t (B) \n (C) \a (D) \b
41. In C++, which one of the following is the conditional operator ? (A) ?? (B) ?: (C) :? (D) ::
42. In C++, which one of the following is the simplest of all the decision statements ?  
 (A) if (B) while (C) switch (D) break
43. How many times the following loop will be executed ? for (x=1; x<6; x++) (A) 1 (B) 5 (C) 6 (D) 7
44. How many kinds of loops are there in C++ ? (A) four (B) five (C) three (D) six
45. In C++, which is a multiple branching statement where, based on a condition, the control is transferred to one of the many possible points ? (A) while (B) for (C) do-while (D) switch
46. What is the output for the given snippet ?  

```
for (int a=1; a<5; a++)
{
  cout<<a;
}
```

 (A) 1234 (B) 4321 (C) 1111 (D) 4444
47. In C++ the scope of any variable used in the entire program is :  
 (A) local (B) file (C) function (D) class
48. Which of the following statement, marks the end of the function in C++ ?  
 (A) continue (B) break (C) return (D) end
49. In C++, which of the following is used to separate a set of actual parameters ?  
 (A), (comma) (B) ; (semicolon) (C) . (dot) (D) & (address of)
50. In C++, what is the return type of the function prototype ? add (int, float, char);  
 (A) float (B) int (C) void (D) char
51. How many number of parameters are required for write( ) function in C++ ?  
 (A) five (B) four (C) three (D) two
52. cin>>num[3]; reads which element in the array ? (A) fourth (B) third (C) second (D) fifth
53. In C++, which function returns '0', if the strings are equal ?  
 (A) strcat( ) (B) strcpy( ) (C) strlen( ) (D) strcmp( )
54. In C++, for which type of data member only one copy of the member variable is created (as part of the common pool) ? (A) static (B) auto (C) inline (D) scope
55. In C++, if visibility label is not mentioned, by default the class members will be treated as what ?  
 (A) public (B) protected (C) global (D) private
56. In C++, which one of the following operator is used to access class members ?  
 (A) . (dot) (B) , (comma) (C) ; (semicolon) (D) : (colon)
57. In C++, objects of a class is also called as: (A) constant (B) instance (C) tag (D) data type

```
class product
{
  int code, quantity;
  float price;
};
void main()
{
  product p1;
}
```



58. In the above snippet how many bytes are allotted in the memory for object 'p1' ?  
 (A) 2 (B) 4 (C) 6 (D) 8
59. In the above snippet, how many data members are there in the class ?  
 (A) 2 (B) 5 (C) 1 (D) 3
60. In C++ through which, the functionality of '+' operator can be extended to strings ?  
 (A) Function overloading (B) Operator overloading (C) Inheritance (D) Class
61. In C++, the overloaded operator must have at least one operand of which type ?  
 (A) built-in (B) user defined (C) array (D) derived
62. In C++, during integral data promotion, int data type cannot be converted into which one of the following type ?  
 (A) char (B) double (C) float (D) array
63. In C++, which of the following cannot have arguments ?  
 (A) constructor (B) destructor (C) function overloading (D) operator overloading

Read the following C++ snippet carefully and answer questions 64 and 65.  
 class simple

```
{
private:
int x;
public:
simple (int y)
{
x=y;
}
~simple( )
{
}
};
```

64. In the above snippet, what is the name of the class ? (A) simple (B) ~ simple (C) private (D) public
65. What type of constructor is used in the above snippet ?  
 (A) Non-Parameterized (B) Copy (C) Parameterized (D) Default
66. In C++, the constructor add (add &a) is (A) default (B) non-parameterized (C) abstract (D) copy
67. In C++, which is not inherited from the base class ?  
 (A) Objects (B) Functions (C) Constructors (D) Data members
68. In C++, during inheritance which symbol should be used between derived and base class ?  
 (A) comma (,) (B) single colon (:.) (C) dot (.) (D) semicolon (;)
69. In C++, derived class inherits what from its base class ? (A) properties (B) name (C) size (D) scope
70. Which permits banking from the comfort of the home by using internet facilities ?  
 (A) e-Shopping (B) e-Banking (C) Transcription (D) Digitization
71. Which enables easy interaction with other people through touch screen, scanner and microphone facilities ? (A) Personal Archives (B) Picture Phone and Pad  
 (C) Archive Unit (D) Memo Frame
72. A category of ITES pertaining to collection, digitization and processing of data coming from various sources.  
 (A) e-Governance (B) Call center (C) Digitization (D) Data Management
73. How many main steps are involved in medical transcription ? (A) two (B) four (C) three (D) five
74. Which is the illegal access to the network or computer system ?  
 (A) Cracking (B) Crime (C) Virus (D) Piracy
75. Software setups that permits only authorized access to the system is called as :  
 (A) Physical security (B) Personal security  
 (C) Personnel security (D) Network security

#### PART - II

Answer any twenty questions in one or two sentences each :

20x2=40

76. How to select the text using keyboard ?
77. How to create Header in StarOffice Writer ?
78. What is meant by range ?
79. Write any four spreadsheet applications.
80. What is meant by Database Management System ?
81. What is primary key ? Give example.
82. What is Virtual reality in multimedia ?
83. Write note on object - based animations.
84. What is the use of Master page in presentation ?
85. What is meant by Slide Transition ?
86. What is encapsulation ?
87. Write note on conditional operator with example.
88. What is string literal ?



89. What is meant by association ?
90. What are the rules for formation of nested loops?
91. What information is provided by the function prototype to the compiler ?
92. What is an array in C++ ? Give example for two - dimensional array.
93. What are the two methods to display the contents of string?
94. Write note on class members.
95. What is meant by data abstraction ?
96. How are functions invoked in function overloading ?
97. Write any four rules for destructor definition and usage.
98. How are constructors and destructors executed in inheritance ?
99. What is e-Learning ?
100. What is Virus ?

### PART - III

**Answer any seven questions :**

7 x 5 = 35

101. What are the steps to be followed for searching a given word and replacing it in a document ?
102. Write the steps to check the spelling after the document is typed in StarOffice Writer.
103. What are the advantages of using electronic spreadsheet ?
104. In StarOffice Calc Worksheet how to generate a series of values ? Explain with example.
105. Write the advantages of computerised data processing.
106. What is loop ? Explain any one loop with example.
107. Define Scope. Explain the various types of Scope in C++.
108. What is function overloading ? Write its rules.
109. Debug the following C++ program to get the following output :

Out put :

17

82

92

Program :

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

```
class first;
```

```
{
```

```
Publicly :
```

```
x1 , x2;
```

```
Void assign {}
```

```
{
```

```
    x1 = 17;
```

```
    x2 = 81;
```

```
    x3 = 92;
```

```
}
```

```
class second :: public first{}
{
```

```
    void show ()
```

```
{
```

```
    int y1,y2,y3;
```

```
    first : assign();
```

```
    y1=x1;
```

```
    x2 = y2;
```

```
    y3 = x3;
```

```
    cout << y1<<'\n'<<y2<<'\t'<<y3;
```

```
}
```

```
void main()
{
```

```
    secondobj;
```

```
    obj.show();
```

```
};
```

110. Find the output for the following C++

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

```
    #include<conio.h>
```

```
    class test
```

```
    {
```

```
        int x,y,z;
```

```
        public :
```

```
        test ()
```

```
        {
```

```
            cout<<"\nConstructor without parameters";
```

```
            x=18;
```

```
            y=16;
```

```
            z=0;
```

```
        "
```

```
        test(int a, int b)
```

```
        {
```

```
            cout<<"\nParameterized constructor";
```

```
            x=a;
```

```
            y=b;
```

```
        }
```

```
        void diff ()
```

```
        {
```

```
            z=x-y;
```

```
        }
```

```
        void display ()
```

```
        {
```

```
            cout<<"\nThe numbers are";
```

```
            count <<x<<'\t'<<y;
```

```
            count <<"\nResult" <<z;
```

```
        }
```

```
};
```

```
void main()
```

```
{
```

```
    clrscr()
```

```
    test obj1,obj2(16,4);
```

```
    obj1.diff();
```

```
    obj2.diff();
```

```
    cout<<"\nobject1";
```

```
    obje1.display();
```

```
    cout<<"\nObject2";
```

```
    obj2.display();
```

```
    getch();
```

```
}
```