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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 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) **Part - II** and **III** questions (76 to 110) should be answered in the main answer-book.

PART - I

Choose the best answer :

75 × 1 = 75

1. What is the keyboard shortcut to move the insertion point to the end of a document in StarWriter ?
 - A) Home
 - B) End
 - C) Ctrl + Home
 - D) Ctrl + End.

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2. To create a new document in StarWriter, select
- A) File → Text document
 - B) File → New → Text document
 - C) File → Open → New
 - D) File → Text document → New.
3. The shortcut key to select the entire document in StarWriter is
- A) Ctrl + F
 - B) Ctrl + C
 - C) Ctrl + V
 - D) Ctrl + A.
4. In StarWriter the size of the fonts is measured in
- A) points
 - B) inches
 - C) cm
 - D) mm.
5. In StarWriter the key pressed to select the spelling correct dialog box is
- A) F5
 - B) F7
 - C) F2
 - D) F3.
6. In StarWriter, the command used to select the table is
- A) Format → Column
 - B) Edit → Select all
 - C) Edit → Select
 - D) Format → Select all.
7. The default top margin in StarWriter is
- A) 2 inches
 - B) 1.5 inches
 - C) 1 inch
 - D) 1.25 inches.
8. The shortcut key used for making the text centered in StarWriter is
- A) Ctrl + E
 - B) Ctrl + C
 - C) Ctrl + R
 - D) Ctrl + J.

9. In StarWriter, the page numbering style can be changed using
- A) Numbering Combo box B) Bullet list
C) Numbering Dialog box D) Numbered list.
10. An electronic spread sheet is a
- A) Text B) File
C) Picture D) Software.
11. The maximum number of rows present in StarCalc is
- A) 3200 B) 32000
C) 256 D) 42000.
12. Excel package was developed by
- A) Borland International B) Sun Microsystems
C) Lotus Corporation D) Microsoft Corporation.
13. In StarCalc, the type of data which is not used for calculation is
- A) Label B) Date
C) Number D) Decimal Number.
14. The key which is used to edit the data in StarCalc is
- A) F5 B) F1
C) F2 D) F7.
15. The reference operator in StarCalc is
- A) + B) &
C) = D) !
16. Flat file database is a (an)
- A) single data table B) structured data table
C) set of related tables D) associated with objects.

{ Turn over

46. GIF stands for
- A) Graphics Interface Format
 - B) Graphics Interchange File
 - C) Graphics Interface File
 - D) Graphics Interchange Format.
47. In VB, the box which displays icon is
- A) List Box
 - B) Input Box
 - C) Text Box
 - D) Message Box.
48. Which is a more generalised and more efficient strategy for data access in VB ?
- A) RDO
 - B) OLEDB
 - C) DAO
 - D) ADO.
49. The character range of an integer in VB is
- A) - 32767 to 32767
 - B) - 32768 to 32768
 - C) - 37268 to 37268
 - D) - 32786 to 32786.
50. In VB, the keyword 'Me' indicates
- A) Currently loaded form
 - B) Currently loaded file
 - C) Currently loaded project
 - D) Currently loaded window.
51. Unary Operator in Java is
- A) +
 - B) -
 - C) ++
 - D) /.
52. JDK stands for
- A) Java Developers Kit
 - B) Java Data Kit
 - C) Java Duration Kit
 - D) Java Database Kit.

53. Continue statement in Java is used to transfer the control
- A) to the beginning of the loop
 - B) to exit out of the loop
 - C) to continue the remaining statements in the loop
 - D) none of these.
54. Optional statement for Java switch statement is
- A) Continue
 - B) Exit
 - C) End
 - D) Break.
55. In how many ways are Java arrays declared ?
- A) 4
 - B) 1
 - C) 2
 - D) 3.
56. The method used to search a string for a particular character in Java is
- A) index Of (ch)
 - B) index Of (str)
 - C) char At (i)
 - D) equals (str).
57. If `.String str = "Happy Birthday" ;`
`str.starts with ("Happy")` will return
- A) false
 - B) true
 - C) 1
 - D) - 1.
58. Java Database Connectivity (JDBC) makes the connection to a variety of
- A) Flat file databases
 - B) Relational databases
 - C) Hierarchical databases
 - D) Object oriented databases.
59. In Java, object file is made of
- A) Source files
 - B) Programs
 - C) Byte codes
 - D) ASCII codes.

[Turn over

68. Which of the following operators in Java is used in a method to refer to the object which invoked it ?
- A) New operator B) (.) Dot operator
C) This operator D) Open operator.
69. Which class modifier creates a class that cannot be extended ?
- A) Abstract B) Final
C) Private D) Public.
70. In Java, how many variable modifiers are available ?
- A) 7 B) 3
C) 8 D) 11.
71. The class from which subclasses are derived is called as
- A) subclass B) class
C) methods D) super class.
72. Which keyword is used to create a subclass ?
- A) Static B) Extends
C) Super D) This.
73. Which method modifier keyword acquires a lock when it starts execution ?
- A) Private B) Final
C) Static D) Synchronized.
74. Which method in Java is used to make the caller wait till the current thread finishes its execution ?
- A) synchronization B) join()
C) start() D) stop().
75. How many constructors are available in color class in Java ?
- A) 3 B) 2
C) 1 D) 4.

[Turn over

PART - II

Answer any *twenty* questions :

20 × 2 = 40

76. Define Text editing.
77. What is the difference between copy and cut commands ?
78. What is meant by Automatic Spelling Correction ?
79. Explain Absolute Cell Addressing with an example.
80. Write a 3D formula of StarCalc. Explain its function.
81. On the basis of the conceptual structures, how are the databases classified ?
82. What is Database Management System ?
83. What are the various types of windows available in VB ?
84. Write a short note on 'form module'.
85. What is meant by shadowing ?
86. Write the output :

Msgbox "Best Wishes", Vb Ok Only + Vb Critical.
87. What are the two most important properties of menu control ?
88. Write the difference between check box and option button.
89. Write the different formats of Combo box.
90. What are the types of graphic files supported by Paint Picture Method ?
91. What is a variant data type ?
92. What are container controls ? What is the use of these controls ?
93. Write a short note on API.
94. Explain 'indefinite loop' in Java with an example.

95. What is an array ? Give an example.

96. Write the output :

```
StringBuffer sample = new StringBuffer ( "Table" ) ;
```

```
sample.set CharAt ( 0, 'C' ) ;
```

```
System.out.println ( sample ) ;
```

97. What is meant by Java beans ?

98. What is method overriding ?

99. Write the use of 'New' operator.

100. What is meant by constructor ?

PART - III

Answer any *seven* questions :

7 × 5 = 35

101. How will you select the required portion of the text in StarWriter documents ?

102. Write the functions of icons present in StarCalc Inserting Object floating tool bar.

103. Explain the procedure to generate reports in Starbase.

104. What is loop ? Explain For ...Next loop in VB with syntax.

105. Explain with example about any 5 methods of List Box Controls of VB.

106. Explain the following :

i) Timer Control in VB. 2

ii) Classification of controls in VB. 3

107. Explain user events in Visual Basic.

108. Describe Life Cycle of an applet.

[Turn over

109. Debug the following Java program to get the given output : (Any 10 errors)

Output :

```

First method
Delhi is an important city
Delhi is an important city
Second method
Bombay is a beautiful city
Bombay is a beautiful city
Bombay is a beautiful city

```

Program :

```

public Class over
{
    public void overload()
    {
        System.out.println( "First method" );
        for ( i = 1 ; i < = 2 ; i ++ )
            System.out.println( "Delhi is an important city" );
    }
    Public void overload ( String s )
        system.out.println("Second method") ;
        for( int i = 1 ; i < = 3 ; i ++ )
            System.out.println( s )
    }
    public static void Main( string args[ ] ) ;
    {
        over p=new over( ) ;
        p.overload ;
        p.overload( "Bombay is a beautiful city" )
    }
}

```

110. Give the output of the following Java Program :

```
class sample
{
    int i, j = 2, k = 25 ;
    float num 1, num 2 = 50 ;
    boolean test ;
    String name 1, name 2 = "Mahesh" ;
}

class prg
{
    public static void main( String args[ ] )
    {
        sample obj = new sample( ) ;
        System.out.println( obj.i ) ;
        System.out.println( obj.j ) ;
        System.out.println( obj.k ) ;
        System.out.println( obj. num 1 ) ;
        System.out.println( obj. num 2 ) ;
        System.out.println( obj.test ) ;
        System.out.println( obj.name 1 ) ;
        System.out.println( obj.name 2 ) ;
    }
}
```
