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Part III — COMPUTER SCIENCE
(Vocational Component under General Stream)

(English Version)

Time Allowed : 3 Hours]

[Maximum Marks : 150

Instruction : Check the question paper for fairness of printing. If there is any lack of fairness, inform the Hall Supervisor immediately.

- 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.,

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 (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 :

$$75 \times 1 = 75$$

1. The machine readable form of a program is called as

- | | |
|----------------|---------------------|
| A) source code | B) object file |
| C) compiler | D) executable file. |

2. The function that returns no value is declared as

- | | |
|----------|----------|
| A) int | B) char |
| C) float | D) void. |

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17. Which command is used to delete the selected table ?
- A) Format → Delete → Table
 - B) Format → Column → Delete
 - C) Format → Row → Delete
 - D) Table → Delete → Table.
18. To move forward through the cells press
- A) Tab
 - B) Shift + Tab
 - C) Ctrl + Tab
 - D) Alt + Tab.
19. The default left and right margins in StarWriter are
- A) 1 inch
 - B) 2.25 inches
 - C) 1.25 inches
 - D) 3.25 inches.
20. Dan Bricklin and Bon Frankston invented
- A) StarOffice Calc
 - B) LOTUS 1-2-3
 - C) Quatro Pro
 - D) Visi Calc.
21. Computer Ethics has its roots in the work of
- A) Donn Parker
 - B) Rick Mascitti
 - C) Bjarne Stroustrup
 - D) Norbert Wiener.
22. Which enables data storage and management ?
- A) Emotion containers
 - B) Memo frame
 - C) Data monitors
 - D) Archive unit.
23. BPO means
- A) Business Process Outsourcing
 - B) Business Process Office
 - C) Business Process Output
 - D) Business Program Output.

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31. The constructor without parameter is called
- A) Method constructor B) Operator constructor
C) Default constructor D) Function constructor.
32. Which is the process of creating new class from the existing or base class ?
- A) Inheritance B) Encapsulation
C) Polymorphism D) Constructor.
33. The objects are not declared for which class ?
- A) Parent B) Base
C) Abstract D) Derived.
34. Which of the following is executed in the reverse order of inheritance ?
- A) Constructor B) Destructor
C) Function D) Operator.
35. The expanded form of CBT is
- A) Computer Based Tutorials
B) Computer Based Tutor
C) Computer Based Teaching
D) Computer Based Teacher.
36. In how many ways is polymorphism achieved in C++ ?
- A) 2 B) 3
C) 1 D) 4.
37. How many explicit argument(s) is/are taken by binary operators overloaded through a member function ?
- A) One B) Two
C) Three D) Six.

38. Which of the following has no return type and cannot be overloaded ?
- A) Constructor B) Destructor
C) Function D) Operator.
39. The memory space is allocated to an object using
- A) Constructor B) Destructor
C) Overloading D) Function.
40. The destructor is prefixed by which character ?
- A) # B) &
C) % D) ~
41. Files in quicktime format have the extension
- A) .qtf B) .mov
C) .qft D) .swf
42. Snd format was developed by
- A) Apple B) IBM
C) MPEG D) Microsoft.
43. Which technique is used to blend two or more images to form a new image ?
- A) Rendering B) Warping
C) Morphing D) Animating.
44. Frequency is also called as
- A) Pitch B) Crest
C) Sampling D) Sound.
45. GIF is limited to how many palettes ?
- A) 16 bit B) 8 bit
C) 32 bit D) 64 bit.

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PART - II

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

76. How to change line spacing in StarOffice Writer ?
77. How to insert page numbers in the footer area ?
78. Differentiate between relative cell addressing and absolute cell addressing.
79. Can we change the data present in a cell ? If so, how ?
80. Define (i) Record, (ii) Field in StarOffice Base.
81. Write a note on filter and its types in Database.
82. Define Warping.
83. Expand and explain :
 - i) MPEG
 - ii) AVI.
84. How to change slide background ?
85. What is meant by custom animation ?
86. Define object.
87. Write a note on conditional operator in C++.
88. Write a note on Type cast.
89. List the important purposes of void data type.

90. What is meant by association in C++ ?
91. List the types of scope rules of variables in C++.
92. Write a note on array of strings.
93. Write in brief about types of array.
94. Define data abstraction.
95. Write the general form of class declaration.
96. How are functions invoked in function overloading ?
97. When is copy constructor executed ?
98. Write a note on multilevel inheritance.
99. What is meant by call center ?
100. Define piracy.

PART - III

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

$$7 \times 5 = 35$$

101. How to select the required portion of the text in a document ?
102. Write in detail about how to change margins using page style dialog box ?
103. Explain how to generate series of values in StarOffice Calc, with suitable example.

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104. How to insert rows, columns and cells in Worksheet ?
105. Explain how to insert cell Calc range into text document ?
106. Explain for loop with suitable example.
107. Explain call by value method with suitable example.
108. Define function overloading. List the rules for function overloading.
109. Debug the following C++ program :

```
#include<iostream.h>
class A
(
private ;
int a1 ;
public :
int a2 ;
protected :
int a3 ;
) ;
class A : public B
(
public :
void func( )
{
int b1; b2; b3;
b1=a1 ;
b2=a2 ;
b3=a3 ;
} ;
void base( )
{
B der ;
der:a3=0;
a3:func( ) ;
}
```

110. Write the output for the following C++ program :

```
#include<iostream.h>
#include<conio.h>
float area(float r)
{
cout<<"\nCircle..";
return(22/7*r*r);
}
float area( float k,float b, float h)
{
cout<<"\nTriangle..";
return(k*b*h);
}
float area(float l, float b)
{
cout<<"\nRectangle..";
return(l*b);
}
void main( )
{
cout<<area(3.0,4.5);
cout<<area(5.0);
cout<<area(0.5,4.0,6.0);
getch( );
}
```

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Write the output for the following C++ program:

```
#include <iostream>
#include <string>
using namespace std;
float area(float a, float b)
{
    cout << "Area: ";
    return (a*b);
}
float area(float a, float b)
{
    cout << "Rectangle: ";
    return (a*b);
}
void main()
{
    cout << endl << "1.4.21";
    cout << endl << "01";
    cout << endl << "2.4.01";
    getch();
}
```