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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.*, ▢▬ (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

Choose the correct answer :   75 × 1 = 75

1. Illegal access to network or computer system is

   A) virus

   B) cracking

   C) piracy

   D) theft of computer time.

2. ITES stands for

   A) IT Economic Services

   B) IT Educational Services

   C) IT Enabled Services

   D) IT Entertainment Services.

[Turn over

3. Which of the following refers to software setups that permit only authorized access to the system ?

   A)   Physical security   B)   Personal security

   C)   Personnel security   D)   Piracy.

4. Which is a telephone based shared service centre ?

   A)   Data Management   B)   Data digitization

   C)   Call centre   D)   e-governance.

5. Which facilitates long term preservation of the documents ?

   A)   Digitization   B)   Data Management

   C)   Data entry   D)   Document sending.

6. Which removes the memory of an object ?

   A)   Constructor   B)   Copy constructor

   C)   Destructor   D)   Default constructor.

7. The default visibility mode in inheritance is

   A)   public   B)   private

   C)   protected   D)   protect.

8. In which type of inheritance, a class is derived from a class, which is a derived class itself ?

   A)   Two-way inheritance   B)   Multilevel inheritance

   C)   Multiple inheritance   D)   Simple inheritance.

9. Which is executed in the order of inherited class ?

   A)   Destructor   B)   Member functions

   C)   Constructor   D)   Public member functions.

10. BPO stands for

    A)   Business Program Outsourcing

    B)   Business Project Outsourcing

    C)   Business Process Outsourcing

    D)   Business Plan Outsourcing.

11. The parameter list in function overloading must differ by

    A)   number of arguments   B)   function name

    C)   function size   D)   number of functions.

12. The operator that can be overloaded is

    A)   ::   B)   .

    C)   sizeof( )   D)   +=

13. When a class object comes into scope which function gets executed ?

    A)   Destructor   B)   Polymorphism

    C)   Constructor   D)   Inheritance.

14. A class can have how many destructor ?

    A)   1   B)   2

    C)   3   D)   4.

15. A constructor with parameters is called

    A)   default constructor

    B)   parameterized constructor

    C)   non-parameterized constructor

    D)   copy constructor.

16. When the first object of its class is created, what value is initialized to static member variable ?

    A)   1   B)   0

    C)   – 1   D)   NULL.

[Turn over

17. In C++, objects of a class are also called as

   A) constants   B) instan

   C) tag   D) data t

18. Members of a class are accessed using which operato

   A) colon   B) dot

   C) scope resolution   D) semico

19. Which is the key feature of object oriented programmi

   A) Encapsulation   B) Polymo

   C) Data hiding   D) Inherit

20. Polymorphism is achieved through

   A) function overloading   B) operato

   C) both (A) and (B)   D) encaps

21. In C++, array is of which data type ?

   A) Built-in   B) User de

   C) Predefined   D) Derived

22. cin>>num[3] ; reads which element ?

   A) Fourth   B) Third

   C) Second   D) First.

23. Which function returns the number of characters stored

24. The members that are declared as, what can be accessed class are

A) public   B) private

C) protected   D) public, pri

25. Which operator is used to define function outside a class

A) ;   B) :

C) ::   D) ?:

26. Which creates object files from source code in C++ ?

A) Variable   B) Translator

C) Object   D) Compiler.

27. Which of the following about functions is false ?

A) Functions provide data security

B) Functions reduce the size of the program

C) Functions induce reusability of code

D) Functions are executable segments in a program.

28. A function can be called or invoked from another function

A) address   B) object

C) class   D) name.

29. Which executes faster but requires more memory space ?

A) Functions   B) Inline fun

C) Objects   D) Classes

31. How many storage specifiers are there in C++ ?

   A) 2

                                   B) 4

   C) 3

                                   D) 5.

32. Which is a predefined object that corresponds to stan

   A) istream

                                   B) cout

   C) cin

                                   D) header

33. In C++, which should be declared or defined bef program ?

   A) Datatype

                                   B) Variabl

   C) Objects

                                   D) Class.

34. In C++, which is a multiple branching statement ?

   A) for

                                   B) if

   C) switch

                                   D) while.

35. The variable used in for loop is called

   A) static variable

                                   B) counting

   C) control variable

                                   D) for variab

36. Which is a computer based presentation technique th graphics and video elements ?

   A) Impress

                                   B) Presentati

   C) Multimedia

                                   D) Powerpoin

37. WBT stands for

   A) Web Based Tutorials

38. The conversion of analog sound waves to a digital format i

    A)   Sampling   B)   Animation

    C)   Multimedia   D)   Compress

39. AVI format was developed by

    A)   IBM   B)   Apple

    C)   Macromedia   D)   Microsoft.

40. Helper application is also called as

    A)   plug-in   B)   multimedi

    C)   video   D)   audio.

41. Which language is used to query the database ?

    A)   C++   B)   SQL

    C)   HTML   D)   DBMS.

42. Which key is used to uniquely identify a record in a datab

    A)   Primary key   B)   Secondar

    C)   Tertiary key   D)   User key

43. Filter used with a condition is called

    A)   Autofilter   B)   Standard

    C)   Conditional filter   D)   Uncondit

44. Which amongst the following consists of usable sets of da

    A)   Form   B)   Field

46. The keys used to create a new presentation using templa

A) Ctrl + N

B) Shift + C

C) Shift + N

D) Alt + Ctrl

47. Which view in StarOffice Impress that allows you to view the slides ?

A) Normal

B) Outline

C) Notes

D) Slide sorte

48. Which can be used to specify basic background inforamtio the slides ?

A) Layouts

B) Master pag

C) Custom animation

D) Slide transi

49. Which key is used to assign presentation styles ?

A) F5

B) F7

C) F11

D) F9.

50. Which amongst the following helps the user to move from sli

A) Home + Arrow keys

B) Navigator

C) Automatic

D) Slide sorter.

51. Which is a Spreadsheet program ?

A) StarOffice Impress

B) Improve

C) Lotus Amipro

D) Flash.

52. The date format in Spreadsheet is

A) DD/MM/YY

B) YY/MM/DD

C) MM/DD/YY

54. The reference operator in StarOffice Calc is

A) !　　　　　　　　　　　　　　B) .

C) .　　　　　　　　　　　　　　D) %

55. A continuous group of cells in a worksheet is called

A) formula　　　　　　　　　　　B) range

C) rows　　　　　　　　　　　　D) columns

56. Which communicates with one another by sending data

A) Class　　　　　　　　　　　　B) Overloa

C) Data　　　　　　　　　　　　D) Objects

57. Which provides security to data ?

A) Polymorphism　　　　　　　　B) Datahid

C) Inheritance　　　　　　　　　D) Data st

58. C++ was developed by

A) Dennis Ritchie　　　　　　　　B) Charles

C) Bjarne Stroustrup　　　　　　　D) Napier

59. The escape sequence '\n' stands for

A) Backspace　　　　　　　　　　B) Line fee

C) Tab　　　　　　　　　　　　　D) Bell sou

60. Which helps users to create a list of identifiers of type i

A) Typedef　　　　　　　　　　　B) Class

62. Facility by which users can define their own sop

   A) Primitive data type

   B) Built-in data type

   C) User-defined data type

   D) Derived data type.

63. Each row and column in a table represent

   A) Record, Field   B) D

   C) File, Field   D) D

64. Which is the process of arranging the data in a ta

   A) Merging   B) F1

   C) Searching   D) So

65. Which is a printed information that is assemble
    user supplied criteria ?

   A) Form   B) Re

   C) Chart   D) For

66. Which is very useful for correcting the spelling
    words ?

   A) Auto spell check icon   B) Rep

   C) Change all   D) Aut

67. Table → Table properties command displays which

   A) Table   B) Tab

   C) Table format   D) Tab

69. The default left and right margins in StarOffice Writer is

    A)   1 inch   B)   1·25 inc

    C)   2·25 inches   D)   1·5 inch

70. Which is used to calculate and analyze sets of numbers

    A)   Spreadsheet   B)   Formula

    C)   Charts   D)   Functior

71. Text document can be created using

    A)   StarOffice Calc   B)   StarOffi

    C)   StarOffice Base   D)   StarOffi

72. To move the insertion point to the beginning of the line p

    A)   End key   B)   Home ke

    C)   Up arrow key   D)   Down ar

73. Which of the following is true, to change the fonts in Sta

    A)   Format → Character   B)   Insert →

    C)   View → Font   D)   Format -

74. One way to set off a list of points or topic in a document

    A)   Line Space   B)   Paragrap

    C)   Bulleted List   D)   Using Sty

8301

PART – II

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

76. What is meant by hanging indent ?

77. How to create bullets and numbered lists ?

78. Define function. How to insert them in worksheet ?

79. Write a short note on types of cell address.

80. Define database.

81. What is a filter ? What are the different types of filters in

82. List the steps in 3-D animation.

83. List any four popular multimedia formats.

84. Define morphing and warping.

85. Explain how to create a custom slide show.

86. Define encapsulation.

87. What is a data type in C++ ? What are the different dataty

88. Define pointer variable. How to declare a pointer variable i

89. Write C++ equivalent expressions using the conditional ope

    i) $f = 0.5$ if $x = 30$ otherwise $f = 5$

    ii) fn = 0.9 if

93. Write a note on memory representation of 2-D array.

94. What does a class comprise ?

95. Write the general form of a class.

96. Define operator overloading.

97. Give two rules for constructor definition and usage.

98. List the types of inheritance.

99. What are meant by emotion containers ?

100. Define computer ethics.

PART – III

Answer any *seven* of the following questions in *five* to te

101. How to find and replace text in StarOffice Writer ?

102. Explain how to change margins using ruler in StarWriter.

103. Explain the fill command in detail.

104. How to create chart in StarOffice Calc ?

105. Explain how to create form using StarOffice Base.

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

```cpp
#include<iostream.h>
#include<conio.h>
class base
{
  public:
  base( )
  {
    cout<<"\nconstructor of base class";
  }
  ~base( )
  {
    cout<<"\ndestructor of base class";
  }
};
class derived:public base
{
  public:
  derived( )
  {
    cout<<"\nconstructor of derived";
  }
  ~derived( )
  {
    cout<<"\ndestructor of derived";
  }
};
class derived2:public base
{
  public:
  derived2( )
  {
    cout<<"\nconstructor of derived2";
  }
  ~derived2( )
  {
    cout<<"\ndestructor of derived2";
  }
```

110. Debug the following C++ program :

```cpp
@include<iostream.h>
class add
{
int sum;
protected:
int num1; num2;
public:
void add( );
{
num1=num2=sum=0;
cout<<"add constructor ;
}
void accept( );
{
num1=12;
num2=14;
}
void plus( );
{
sum=num1+num2;
cout<<sum;
}
class subtrac( )
{
int sub;
public:
void subtract( );
{
sub=0;
cout<<"subtract constructor
void minus( );
{
add:accept( );
sub=num1-num2;
cout<<sub;
};
void main( )
{
```