This question paper contains **3** printed pages]

SB—511—2022

FACULTY OF SCIENCE

B.Sc. (Third Semester) EXAMINATION

JUNE/JULY, 2022

(New Pattern)

COMPUTER SCIENCE

Paper-VII

(Programming in C++)

(Thursday, 14-7-2022)   **Time : 02.00 p.m. to 04.30 p.m.**

Time— 2½ *Hours*   *Maximum Marks*—40

N.B. :—   (i)   *All* questions are compulsory.

     (ii)   Figures to the right indicate full marks.

1.   Select the *correct* alternative :   10

   (i)   Which of the following escape sequence represents carriage return ?

     (a)   \r   (b)   \n \r

     (c)   \n   (d)   \c

   (ii)   Which of the following is called extraction operator ?

     (a)   >>   (b)   <<

     (c)   <   (d)   >

   (iii)   Which one of the following is *not* a fundamental data type in C++ ?

     (a)   Float   (b)   Double

     (c)   Operator   (d)   int

                    P.T.O.

(*iv*) ....is the smallest individual unit in a program.

    (*a*)   Token

    (*b*)   Constructor

    (*c*)   Destructor

    (*d*)   None of these

(*v*) Which of the following is the correct identifier ?

    (*a*) $var_name

    (*b*)   var_123

    (*c*)   varname@

    (*d*)   None of these

(*vi*) Which of the following is scope resolution operator ?

    (*a*)   :

    (*b*)   : :

    (*c*)   *

    (*d*)   *·

(*vii*) The programming language that has the ability to create new data types is called :

    (*a*)   Overloaded

    (*b*)   Encapsulated

    (*c*)   Reprehensible

    (*d*)   Extensible

(*viii*) Which of the following is the address operator ?

    (*a*)   @

    (*b*)   #

    (*c*)   &

    (*d*)   %

(*ix*) Which of the following is the correct syntax to read the single character to console in the C++ language :

    (*a*)   Read ch ( )

    (*b*)   Getline vh ( )

    (*c*)   get (ch)

    (*d*)   Scanf (ch)

(*x*) C++ is a.......type of language.

    (*a*)   High-level

    (*b*)   Low-level

    (*c*)   Middle-level

    (*d*)   None of these

2. List the types of inheritance supported in C++. 10

Or

(*i*) What is Encapsulation ? 5

(*ii*) What is function overloading ? 5

3. WAP in C++ to find out the greatest common divisor between two number.

10

Or

(*i*) What is a pure virtual function. 5

(*ii*) Explain the static member function ? 5

4. What is a default constructor ? Can we provide one for our class ? 10

Or

(*i*) What is a scope resolution operator ? 5

(*ii*) Explain characteristics of C++ language. 5