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

W—423—2018

FACULTY OF SCIENCE

B.Sc. (Second Year) (Third Semester) EXAMINATION

NOVEMBER/DECEMBER, 2018

(CGPA Pattern)

COMPUTER SCIENCE

Paper VII

(Object Oriented Programming Using C++)

(MCQ + Theory)

(Saturday, 15-12-2018)   **Time : 2.00 p.m. to 4.00 p.m.**

Time—2 Hours   *Maximum Marks—40*

N.B. :— (i)   Attempt *all* questions.

    (ii)   Assume suitable data if necessary.

    (iii)   Figures to the right indicate full marks.

MCQ   10

1.   Select *correct* alternative for following :

(1)   .... is a data type in C++.

    (A)   String   (B)   Store

    (C)   Structure   (D)   None of these

(2)   .... is a decision control statement.

    (A)   for   (B)   while

    (C)   do-while   (D)   if

(3)   .... is a relational operator in C++.

    (A)   = =   (B)   + +

    (C)   – –   (D)   + –

P.T.O.

(4) Class variable is also called as ....

    (A) Object   (B) Overloading

    (C) Overriding   (D) Constructor

(5) A .... is a special member function of a class that is executed whenever an object of its class goes out of scope.

    (A) Constructor   (B) Object

    (C) Destructor   (D) None of these

(6) .... is a type of inheritance in C++.

    (A) Single   (B) Doubly

    (C) Trial   (D) Long

(7) If same operator is used for different operations, then it is called as ....

    (A) Operator precedence   (B) Operator priority

    (C) Operator overloading   (D) None of these

(8) .... is called as decrement operator.

    (A) – –   (B) – +

    (C) + –   (D) ! =

(9) Input statement used in C++ is ....

    (A) scanf   (B) printf

    (C) for   (D) cin

(10) .... is a looping statement in C++.

    (A) for   (B) if

    (C) if-else   (D) switch

Theory

2. Explain inheritance and its types.   10

Or

(*a*) What are the different operators used in C++ ?   5

(*b*) Write a program in C++ to display factorial of a number.   5

3. Explain operator overloading in detail. 10

Or

(*a*) Explain nested if-statement with syntax and example. 5

(*b*) What are the input/output statements used in C++ ? 5

4. Write short notes on the following (any *two*) : 10

(*a*) Constructor

(*b*) Rules for overloading operator

(*c*) Virtual base class

(*d*) Class and object.