

This question paper contains 3 printed pages]

V—361—2017

FACULTY OF SCIENCE

B.Sc. (Third Semester) EXAMINATION

NOVEMBER/DECEMBER, 2017

(CBCS Pattern)

COMPUTER SCIENCE

Programming in C++

Paper No. VII (Optional)

(MCQ + Theory)

(Saturday, 16-12-2017)

Time : 2.00 p.m. to 4.00 p.m.

Time— Two Hours

Maximum Marks—40

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

(ii) Draw neat and labelled diagram wherever necessary.

(iii) Assume suitable data wherever necessary.

(MCQ)

1. Attempt the following :

10

(i) What does your class can hold ?

(a) data

(b) function

(c) both (a) & (b)

(d) none of these

(ii) How many specifiers are present in access specifiers in class ?

(a) 1

(b) 3

(c) 2

(d) 4

(iii) How many kinds of classes are there in C++ ?

(a) 2

(b) 1

(c) 3

(d) 4

(iv) Which is used to define the member of a class externally ?

(a) :

(b) #

(c) ::

(d) none of these

P.T.O.

- (v) Which other keywords are also used to declare the class other than class ?
- (a) struct (b) union
(c) object (d) both (a) and (b)
- (vi) Which of the following is a valid class declaration ?
- (a) class A & int x ; 3; (b) class B & 3
(c) public class A & 3 (d) object A & int x; 3
- (vii) The fields in the class in C++ program are by default :
- (a) private (b) protected
(c) public (d) none of these
- (viii) Constructors are used to
- (a) initialize the objects (b) construct are data members
(c) both (a) and (b) (d) none of these
- (ix) Where does the execution of the program starts ?
- (a) user defined function (b) void function
(c) main function (d) none of these
- (x) What are the mandatory parts in function declaration ?
- (a) return type, function name, parameters
(b) return type, function name
(c) both (a) and (b)
(d) none of the above

(Theory)

2. (a) Write a program in C++ to reverse of given no. i.e. 789 = 987. 10
Or
(b) Explain the benefits of object oriented programming. 5
(c) What is data type ? Explain derived data type in C++. 5

3. (a) Write a program in C++ to find the factorial of given number. 10
Or
(b) What is function overloading ? Explain with suitable example. 5
(c) What are constructor ? Explain parameterised constructor. 5
4. (a) Write a program in C++ to illustrate the single inheritance. 10
Or
(b) Explain the rules for overloading operators. 5
(c) Explain the term virtual base class with example. 5