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AA—06—2019

FACULTY OF SCIENCE

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

OCTOBER/NOVEMBER, 2019

(Revised Course)

COMPUTER SCIENCE

(Object Oriented Concepts and Programming in C++)

(Thursday, 14-11-2019)

Time : 2.00 p.m. to 5.00 p.m.

Time—3 Hours

Maximum Marks—80

N.B. :— (i) Attempt All questions.

(ii) Figures to the right indicate full marks.

(iii) Use suitable data, if necessary.

1. Attempt the following : 20

(i) What are the advantages of OOPs ?

(ii) What is class ? Explain.

(iii) What is Inline Function ? Explain.

(iv) Describe virtual function in detail.

2. (a) Explain in detail data types used in C++. 8

(b) Describe in brief friend function. 7

Or

(c) Write a program in C++ using static class members. 8

(d) What is constructor ? Explain in detail copy constructor. 7

3. (a) Explain in detail concepts of function overloading. 8

(b) Write a program in C++ for unary operator overloading. 7

P.T.O.

Or

- (c) What is Inheritance ? Explain the multilevel inheritance with example. 8
- (d) Explain in detail pure virtual function. 7
4. (a) Write a program in C++ using call by value. 8
- (b) Explain in detail Manipulators. 7
- Or
- (c) Describe the concept file updation with random access. 8
- (d) Explain try and catch primitives with suitable examples. 7
5. Attempt any *three* of the following : 15
- (i) Object
- (ii) Formatted I/O console in C++
- (iii) Destructor
- (iv) C++ stream classes
- (v) Type conversion in C++.