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AA—29—2019

FACULTY OF SCIENCE AND TECHNOLOGY

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

OCTOBER/NOVEMBER, 2019

(CBCS Pattern)

COMPUTER SCIENCE

(S3.3)

(Object Oriented Concepts Using C++)

(Wednesday, 16-10-2019)

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

Time—3 Hours

Maximum Marks—75

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

(ii) Assume suitable data, if required.

1. Attempt any *five* of the following : 15
 - (a) Explain benefits of OOPs.
 - (b) Explain I/O statements in C++.
 - (c) What is user defined functions ?
 - (d) What is Static member ?
 - (e) What do you mean by type conversion ?
 - (f) Explain virtual base class.
 - (g) What do you mean by stream ?
2. Attempt any *two* of the following : 10
 - (a) Explain the concept encapsulation.
 - (b) Explain advantages of OOPs.
 - (c) Explain the difference between C and C++.
3. Attempt any *two* of the following : 10
 - (a) What are the different data types used in C++ ?
 - (b) Explain while loop in detail.
 - (c) Write a program to describe function overloading.

P.T.O.

4. Attempt any *two* of the following : 10
- (a) Explain concept of pointer to object.
 - (b) Explain the concept of friend function.
 - (c) Write a program to describe destructor.
5. Attempt any *two* of the following : 10
- (a) Explain rules for overloading operators.
 - (b) Explain class to class type conversion.
 - (c) Write a program to describe unary operator overloading.
6. Attempt any *two* of the following : 10
- (a) What is Inheritance ? Explain its types.
 - (b) Explain virtual function.
 - (c) Write a program to describe multiple inheritance.
7. Attempt any *two* of the following : 10
- (a) Explain unformatted I/O statements.
 - (b) Explain procedure for opening and closing file.
 - (c) Write a program to store employee data into file emp.txt.