

Faculty of Science

B.Sc (Computer Science) I-Year, CBCS-I Semester Backlog Examinations, January 2021

PAPER: OBJECT ORIENTED PROGRAMMING WITH C++

Time: 2 Hours

Max Marks: 80

I. Answer any **FOUR** of the following questions (4x20=80 Marks)

1. What are features of OOP? Explain about decision control and looping statements in C++ in detail.
2. What is a Class? What is an Object? What are programming paradigms? Explain about generation of programming languages.
3. Explain about passing arguments to function using pointers and passing array to function in C++ with suitable examples.
4. Explain concepts of multidimensional arrays. Write a C++ program to merge k sorted arrays of size n each.
5. Define constructor. What are various types of constructors? Explain about constructor with default arguments with examples.
6. Explain about structure, union and enumerated data types with C++ program examples.
7. What is operator overloading? Write syntax for overloading. Explain about overloading unary operators, binary operators and special operators in detail with C++ programs.
8. Explain the following with C++ programs:
 - (a) Constructors and Destructors in Hierarchical Inheritance
 - (b) Virtual Functions and Pure Virtual Functions
