

**S.D.E.**  
**B.C.A. (2004 Course Sem- III : SUMMER - 2019**  
**SUBJECT: OBJECT ORIENTED PROGRAMMING WITH C++**

Day: Tuesday  
Date: 14/05/2019

Time: 02.00 PM TO 05.00 PM  
Max Marks. 80

S-2019-4966

---

**N.B.**

- 1) Attempt any **FIVE** questions from Section – I and any **TWO** questions from Section - II
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Answers to both sections should be written in **SAME** answer book.
- 

**SECTION - I**

- Q.1** What is Inheritance? Explain the types is inheritance supported by C++. (10)
- Q.2** Explain the concept of method overloading? Explain it with example. (10)
- Q.3** What are different ways of parameter passing in C++? Describe each in brief. (10)
- Q.4** What is constructor? Explain its role in the object creation process with example. (10)
- Q.5** List and describe storage classes available in C++. (10)
- Q.6** What do you know about virtual function? Explain its role in Polymorphism. (10)
- Q.7** Write short notes on any **TWO** of the following: (10)
- a) Output streams
  - b) Friend function
  - c) Static Class data member and functions

**SECTION – II**

- Q.8** Write a Class Employee with attributes like Emp\_no , name, department and salary. Also write necessary constructors and methods. Use to create object and display information about them. (15)
- Q.9** Write a Class to represent Set of natural numbers with necessary constructors and methods. Provide functionality to add and remove single element in a Set. (15)
- Q.10** a) Write a C++ program to read two integers and find Lowest Common Multiple (LCM ) of them (08)
- b) Write a program to accept date and validate it about its correctness. (07)

\* \* \*

---