

**S.D.E.**

**B.C.A. (2004 COURSE SEM- III : SUMMER - 2018  
SUBJECT : OBJECT ORIENTED PROGRAMMING WITH C++**

Day : **Thursday**  
Date : **31/05/2018**

Time : **02.00 PM TO 05.00 PM**  
Max. Marks: 80

**S-2018-4351**

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**N.B.:**

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

- Q.1** What is object oriented programming? Explain how it is different from structured programming. [10]
- Q.2** Explain call by value, call by reference and call by variable function arguments. [10]
- Q.3** Explain different control statements in C++. [10]
- Q.4** What is meant by polymorphism? Explain types of polymorphism in brief. [10]
- Q.5** What is inheritance? Explain different types of inheritance. [10]
- Q.6** a) What is abstract class? [05]  
b) Explain virtual function. [05]
- Q.7** Write short notes on **ANY TWO** of the following: [10]  
a) File related class and objects  
b) Inline function  
c) Friend function

**SECTION – II**

- Q.8** Write a C++ program to accept five players information such as player name, game and captain name. Display all players information using array of objects. [15]
- Q.9** a) Write a C++ program to display reverse of a number. [08]  
b) Write a C++ program to find sum of first 10 natural numbers. [07]
- Q.10** Write a C++ program to accept marks of two students and display the result, total marks and percentage. [15]

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