

**B.C.A. (2010 COURSE SEM- IV : SUMMER - 2018**  
**SUBJECT: OBJECT ORIENTED PROGRAMMING-I**

Day: **Thursday**  
Date: **03/05/2018**

Time: **10.00 AM TO 01.00 PM**  
Max. Marks: 70

**S-2018-1735**

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**N.B.:**

- 1) **Q. No. 1 is COMPULSORY.**
  - 2) Attempt any **FOUR** questions from **Q. No. 2 to Q. No. 7.**
  - 3) Figures to the right indicate **FULL** marks.
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- Q.1** a) Explain basic concepts of Object Oriented Programming language. (07)  
b) What do you know about function overloading? Explain it with example. (07)
- Q.2** a) Explain types of parameter passing in C++. (07)  
b) Write a C++ program to print 'n' terms of Fibonacci sequence for given number 'n'. (07)
- Q.3** a) What is use of in-line function? Illustrate it with example. (07)  
b) Explain use of '*this*' pointer with example. (07)
- Q.4** What is use of *Constructor*? Explain types of *Constructor* in C++ with example. (14)
- Q.5** What is Inheritance? List and describe types of inheritance in C++. (14)
- Q.6** What is Polymorphism? Illustrate role of virtual function in Polymorphism. (14)
- Q.7** Write short notes on any **TWO** of the following: (14)  
a) Dynamic memory allocation  
b) Static data members and their memory allocation.  
c) Friend function

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