

**B.C.A. (2010 COURSE SEM- IV : WINTER - 2017**  
**SUBJECT: OBJECT ORIENTED PROGRAMMING -I**

Day: **Wednesday**  
Date: **15/11/2017**

**W-2017-1643**

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

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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) With suitable example, Explain concept of Constructor Overloading. (07)  
b) Illustrate use of in-line function with example. (07)
- Q.2** a) Write and use a function to check whether number is prime or not. (07)  
b) Explain arrays in C++. (07)
- Q.3** a) Illustrate and differentiate call by value and call by reference with suitable example. (07)  
b) Explain use of static data members and functions. (07)
- Q.4** What do you know about dynamic memory allocation and de-allocation? Explain how C++ supports it. (14)
- Q.5** What is *Class*? Explain how we use it. Also compare it with structure. (14)
- Q.6** What is operator overloading? Overload ==, < and > operator to compare two objects. (14)
- Q.7** Write short notes on any **TWO** of the following: (14)  
a) Abstract class  
b) Destructor  
c) Rules for inheriting members and their visibility in derived class.

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