



Code: 9F00202

MCA II Semester Supplementary Examinations June/July 2018

**OBJECT ORIENTED PROGRAMMING**

(For students admitted in 2011 (LC), 2012, 2013, 2014, 2015 & 2016 only)

Time: 3 hours

Max. Marks: 60

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) Distinguish between object oriented programming and procedure oriented programming.  
(b) Explain about the fundamental characteristics of object oriented programming.
- 2 Explain the following concepts with a simple program.  
(a) Do.  
(b) Break.  
(c) If.  
(d) For.  
(e) Continue.
- 3 (a) What is a friend function? Write a program to demonstrate friend function and friend class.  
(b) What is constructor? Write a simple example to demonstrate a copy constructor. Also write about the use of constructor.
- 4 Define polymorphism. Write a short note on function overloading and operator overloading with a simple example.
- 5 (a) Define inheritance. Explain the different types of inheritance.  
(b) Write a short note on virtual base class.
- 6 (a) Explain about the static and dynamic bindings.  
(b) Write a short note on: (i) Run time polymorphism. (ii) Abstract classes.
- 7 Discuss in detail about:  
(a) C++ stream class Hierarchy.  
(b) Stream I/O.  
(c) File streams.  
(d) String streams.
- 8 (a) Give a brief description about the stack unwinding.  
(b) What are the advantages of using exception handing? Demonstrate the concept of rethrowing an exception..

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