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## MCA II Semester Regular & Supplementary Examinations May 2016 OBJECT ORIENTED PROGRAMMING

(For students admitted in 2010, 2011, 2012, 2013, 2014 & 2015 only)

Time: 3 hours Max. Marks: 60

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Bring out the differences between C and C++.
  - (b) Mention the characteristics of object oriented program.
  - (c) How to create class & instances, also specify access specifiers.
- 2 (a) Explain the different types of storage class.
  - (b) Sketch a neat structure of C++ and elaborate the sections.
  - (c) Write C++ program to find the sum of 10 natural numbers without using any loop statement.
- 3 (a) Define class. Mention the class with the following details:
  - Class employee { int no; clor name[30];
  - float Color code; public : void accept ();
  - Void display (); }; accept the details & display the same.
  - (b) Distinguish between Class and Abstract class.
  - (c) "Constructor can be over loaded" if yes justify your answer with an example.
- 4 (a) List out the operators that are not overloaded & not by friend also.
  - (b) Using the class template perform arithmetic operations on integer, float & double.
  - (c) Write a C++ program to overload the \*, + of two complex numbers using friend function.
- 5 (a) Explain calling of constructor & destructor in case of multiple inheritance with an example?
  - (b) Mention the different types of inheritance with an example.
- 6 (a) List out the important points of virtual functions & bring out the difference between virtual & pure virtual function.
  - (b) Elaborate the runtime polymorphism.
- 7 (a) Write a C++ program to overload <<, >> for performing addition of two numbers.
  - (b) Write a C++ program to write integers in to file & open the same file, separate the odd numbers & even numbers & display the same.
- 8 (a) What is an exception? How an exception can be handled in C++?
  - (b) Write a program containing a possible exception. Use a try block to throw it & a catch block to handle it properly.

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