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FACULTY OF ENGINEERING AND INFORMATICS

B.E. I Year (Main) Examination, June 2014

Subject Programming in C & C++

Time: 3 hours Max. Marks 75

Note: Answer all questions from Part-A. Answer any FIVE questions from Part-B. PART A (25 Marks)

- What is the minimum number of times the body of a do... while loop is executed?
- 2 What does printf ("%d, %d\n", 5/3, 5 \ \mathcal{n} \mathcal{3}) print to standard output?
- 3 Give the precedence (order of execution) of logical operators in C.
- 4 What is the purpose of the keyword void in a function declaration?
- 5 Given that k is an integer array starting at location 2000, kPtr is a pointer to k and each integer is stores in 4 bytes of memory, what location does kPtr + 3 point to?
- 6 What are enumeration constants? How do you declare them?
- 7 What is a scope resolution operator?
- 8 What is a copy constructor?
- 9 What is the purpose of a virtual destructor?
- 10 What is the difference between function overriding and overloading?

PART — B (50 Marks)

- 11 a) Write a program to compute the roots of a quadratic equation.
 - b) Draw the block diagram of a digital computer with various functional units.
- 12 a) Write a program to read a matrix of size m X n form key board and display the same on screen using functions.
 - b) What are different storage classes in C? Explain their usage.
- 13 a) Write a program to enter strings from user and then sort tnem in alphabetical order (You can use string standard library functions).
 - b) Explain the usage of various preprocessor directives in conditional compilation.
- 14 a) Write a program to implement complex number class with overloaded operators 4., , <<, >>,
 - h) What is this pointer? Illustrate different uses of it with suitable examples.
- a) In what order are class constructors and destructors are called when a derived class object is created and deleted? Illustrate with an example.
 - b) What are different stream 10 manipulators? Illustrate with examples.
- 16 a) Write a C/C++ program to count the number of characters in a given text file,
 - b) Differentiate between break and continue.
- 17 Write short notes on
 - a) Machine and assembly languages
- b) Recursive functions

c) Dynamic binding