Code No.: 5006/M

FACULTY OF ENGINEERING & INFORMATICS

B.E. I Year (Common to all branches) Examination, May/June 2012

PROGRAMMING IN C & C++

Time: 3 Hours

[Max. Marks: 75

Answer **all** questions from Part-A. Answer any **five** questions from Part-B.

Part A — (Marks : 25)

- 1. What is the difference between a compiler and an interpreter?
- 2. What are symbolic constants in C? How do you declare them?
- 3. What is the difference between actual parameter and formal parameter?
- 4. If P is a pointer having address '2000' what are the values of P for the following:
 - (i) P = P + 2 for int * P
 - (ii) P = P-1 i for floot * p
 - (iii) P = P+10; for char * P
- 5. What is the output of the following program?

define MESS junk

```
main()
{ printf("MESS");
```

- 6. What does EOF stand for and what does it indicate?
- 7. What is the difference between delete and delete []?
- 8. For class (Foo {}; what default methods will the complier generate for you?
- 9. What is a "pure virtual" meanst function?
- 10. What happens if an exception is not caught?

[P.T.O.

Part B — (Marks : 50)

- 11. (a) Draw the flow chart to find largest number among three numbers.
 - (b) Write a program to print the sum of the digits of given natural numbers.
- 12. (a) Write a program in *C* to read a line of text and write it out backwards using the recursive function.
 - (b) Write a program to sort given list of numbers using selection sort.
- 13. (a) How are strings stored using points variables? Is it essential to declare length?
 - (b) Write a program to count the number of lines in a text file.
- 14. Write a C++ program to implement data class, whole values are Calendar dates. Equip your class with operating such as is before, adding or subtracting given number of days.
- 15. (a) In what ads are class contructors and class destructors called when a desired class direct is created and deleted? Illustrate with an example.
 - (b) What is the importance of IOS number flaps in formating IO?
- 16. Write programme to overlaping >> << operators for reading and writing data to I/o stream.
- 17. Write short notes on:
 - (a) Storage classes
 - (b) Templates and static numbers
 - (c) Representation of fried and floating point numbers.