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FIRST SEMESTER

Roll No. PT 011/0285

B.Tech. (Group B)

END SEMESTER EXAMINATION

NOV.-DEC.-2011

COE-116 PROGRAMMING FUNDAMENTALS

Time: 3 Hours

Maximum Marks : 70

Note : Answer any **FIVE** questions.
Assume suitable missing data, if any.

- 1[a] Distinguish between algorithm and flow chart. 4
- [b] What do you understand by subprograms? Explain. 5
- [c] Distinguish between programming languages C and C++. 5
- 2[a] Distinguish between the break statement and the continue statement. 4
- [b] Explain the following with syntax flowchart and example: 5
- (i) switch statement 5
- (ii) do-while loop 5
- 3[a] What is three dimensional array? Write a computer program to multiply any two 3×3 matrices. 7
- [b] Distinguish between structures and unions with relevant coding. 7
- 4[a] Write a computer program using pointers as function arguments. 7
- [b] Explain different operations that can be carried out on a file. 7
- 5[a] What are the unique advantages of an object-oriented programming paradigm? 7
- [b] Distinguish between the following: 7
- (i) Objects and classes
- (ii) Data abstraction and data encapsulation.
- 6[a] How are data and functions organized in an object oriented program? Also, explain private and public memberships in a class. 7
- [b] What are the different forms of class Inheritance. 7
- 7 Explain any TWO of the following: 7+7
- [a] Constructors and Destructors
- [b] Coding Style
- [c] Standard Template Library.