**2008 Alagappa University M.Sc Information Technology OBJECT ORIENTED PROGRAMMING AND C++ Question paper**

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| **Course: M.Sc M.Sc Information Technology** |   | **University/board: Alagappa University** |

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PART A — (10 x 3 = 30 marks)
Answer ALL questions.

1. What is a class? Give example.
2. What is meant by an object? Give example.
3. List the models of object oriented development.
4. Define the term “control abstraction”.
5. What is the use of this pointer?
6. Write the most general form of a copy constructor.
7. List the operators that cannot be overloaded.
8. What do you mean by default argument?
9. Write the general form of a ‘generic class’.
10. What is an exception?

PART B — (4 x 10 = 40 marks)
Answer any FOUR questions.

11. Explain briefly Encapsulation with example.
12. Discuss various possible relationships between classes.
13. Explain various types of inheritance with an example.
14. Describe the Derived classes and Member functions.
15. List and explain the rules for overloading an operator.
16. Write a C++ program to overload – – operator.

PART C — (2 x 15 = 30 marks)
Answer any TWO questions.

17. Write a C++ program to maintain an inventory file perform the following operations :
(a) add a new item
(b) display the file.
18. List and explain various file handling functions. Give a sample program to create a file of objects.
19. Write short notes on :
(a) Function overloading
(b) Inline function
(c) Virtual function.