

Reg. No.:

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
COLLEGE OF ENGINEERING GUINDY  
ANNA UNIVERSITY :: CHENNAI - 600 025

B.E. Arrear Examinations :: Apr / May 2019 (FULL TIME)  
EE8011 - Fundamentals of Object Oriented Programming

Time: 3 Hrs.

(R2012)

Max. Marks: 100

Answer ALL Questions

Part - A [10 x 2 = 20]

1. What is Object Oriented Programming?
2. Distinguish between procedural languages and object oriented languages
3. What is encapsulation?
4. How a member functions in a class are declared?
5. List the different types of inheritance.
6. What is Polymorphism? What are its types?
7. What is Function overloading? Give an example
8. What is Exception Handling?
9. List the advantages of template functions in C++.
10. Use the operators that cannot be overloaded in C++.



Part - B [5 x 16 = 80]

11. Write a detailed note on the following:  
[a] String manipulation in C++ [8]  
[b] Exception handling in C++ [8]
12. a) List and explain in details about the concepts of OOPs? [16]  
Or  
b) List and explain the functions of various operators in C++ with their hierarchy rules. [16]
13. a) i) What is Default constructor? Give syntax and example program [8]  
ii) What is Copy constructor? Give syntax and example program [8]  
Or  
b) Define Member Function and explain in detail about function outside the class body with an example program. [16]
14. a) What are the advantages of inheritance? Describe the various types of inheritance supported by C++; give an example that fits them. Give the programming syntax of implementing these forms of inheritance. [16]  
Or  
b) i) Illustrate the need of virtual base class with an example [8]  
ii) Discuss about Polymorphism and its advantages. [8]
15. a) Explain how unary and binary operators can be overloaded in C++ with simple example. [16]  
Or  
b) Write a detailed note on the following:  
[i] Function templates [8]  
[ii] Class templates [8]