

SATHYABAMA UNIVERSITY

(Established under section 3 of UGC Act, 1956)

Course & Branch: B.E/B.TECH - AERO/CSE/IT/M&P/MECH

Title of the paper: Programming in C++

Semester: II

Max. Marks: 80

Sub.Code: 6C0094(2007)

Time: 3 Hours

Date: 15-12-2008

Session: AN

PART – A

(10 x 2 = 20)

Answer All the Questions

1. Write two benefits of OOPs.
2. What are the application of OOPs?
3. Define inline functions.
4. Define Copy constructor.
5. What are the operator can't be overload?
6. Explain post increment and pre increment.
7. What is an abstract class?
8. Explain The syntax of Virtual function.
9. What are the function of seekg()?
10. In what circumstances would be used catch (...)?

PART – B

(5 x 12 = 60)

Answer All the Questions

11. (a) What do you mean by dynamic binding? How is it useful?
(b) Explain Structure of C++
(or)
12. (a) What are the fundamentals of OOPs (5)
(b) How C++ is differ from C? (7)
13. (a) What are objects? How are they Created? (5)
(b) Write a program to convert decimal number into binary number (7)
(or)
14. (a) Explain with suitable example of Constructor and copy constructor (7)
(b) Explain: this pointer and friend functions (5)
15. (a) Explain : Unary Operator overloading with example
(b) Write a program for function overloading to read to set of integer number and floating numbers
(or)
16. (a) Explain templates with examples
(b) Write a program to perform operations of two complex numbers using operator overloading.
17. (a) Describe with programming examples of multilevel inheritance. (7)
(b) Explain: Base class and Derived class relationship (5)
(or)
18. (a) Explain with example of Virtual Base class. (7)
(b) Explain Constructor and destructor in Derived class (5)
19. (a) Explain binary file and Random access file.
(b) What are the functions of ios with example
(or)
20. (a) What are Error Handling during file manipulation.
(b) Write a C++ Program to perform arithmetic Operation on various data type values using class/ function templates.