SATHYABAMA UNIVERSITY

(Established under section 3 of UGC Act, 1956)

Course & Branch :B.E/B.Tech - AERO/AUTO/CSE/IT/M&P/MECHTitle of the Paper :Programming in C++Max. Marks :80Sub. Code :6C0094Time : 3 HoursDate :17/05/2010Session :FN

PART - A

(10 x 2 = 20)

Answer ALL the Questions

- 1. Distinguish between data abstraction and data encapsulation.
- 2. Explain iostream.h.
- 3. Explain inline functions.
- 4. Explain new, delete operators.
- 5. Why is it necessary to overload an operator?
- 6. Explain Class Template.
- 7. When do we use the protected visibility specific to a class member?
- 8. What is virtual base class?
- 9. Explain under what circumstances the throw would be used.
- 10. Explain bad().

$$PART - B$$
 (5 x 12 = 60)

Answer All the Questions

- 11. (a) Describe the major parts of a C++. (4)
 - (b) Write a program that will ask for a temperature Fahrenheit and display in Celsius. (8)

(or)

- 12. (a) Write a program to print the following output using for loop.
 - 1 2 2 3 3 3 4 4 4 4

(b) Compare new operator and malloc function with example.

13.	(a) Explain briefly Parameterized Constructor.(b) Write a program using friend function to exchange the values of two classes.	(5) private (7)
1 4	(or)	$\langle \mathbf{O} \rangle$
14.		(8)
	(b) Explain Class member Accessibility.	(4)
15.	(a) Write a Program to show how the unary minus open	ator is
	overloaded.	(8)
	(b) Which operators cannot to be overloaded?	(4)
	(or)	
16.	a) Define a class string. Write a program to overload == operator	
	and compare two strings.	(8)
	(b) What are the rules for overloading operators?	(4)
17.	(a) Write a program to implement multilevel and m	nultiple
	inheritance.	(9)
	(b) What are the various Functions that can have access to	
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(b) Explain briefly the concept of re throwing an exception. (5)