Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

2002 SCHEME

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USN												CS36	
		1	hir	·d S	Sen	1est	ter	B.F			ree Examination, December 2011 P with C++		
Tin	ne: 3	3 hrs	•			1	Not	te: <i>A</i>				arks:100	
1	a. b.	List and explain characteristics of object -oriented programming concept. Write short notes on the following: i) Construct qualifier ii) References										(05 Marks)	
	c.	iii) Typedef names iv) Enumeration types. (10 Ma Explain the concept of type conversion, with suitable examples. (05 Ma											
2	а. ъ.	When it is suitable to define a function as inline? What are the benefits of inline function Explain the working of inline function, with a suitable programming example. (10 Marks What is function overloading? List and explain the three steps involved in overload resolution, with an example. (10 Marks											
3	a. b.	Exp Wh	olain at is	hov adv	v the	e con iges	nm: of g	and l gener	ine op ic fun	otic cti	ons are handled, with an example. ions? Apply the generic function to bubble so	(05 Marks) rt. (08 Marks)	
	c. Explain the argument-type conversions in overloaded functions, with an exan												
4	а. b.	exa des	mpl truct	e of tors.	a	para	mei i the	rized e foll	cons owing	tru 3, 1	rs and destructors? Write a C++ program that actor. Also explain the execution of construction with example:	(10 Marks)	
		i)	i) This pointer ii) Nested classes.										
5	a.	overloading is done in member function format and by using friend function, with an example. (10 Marks) b. Explain the overloading of —— (decrement) operator both in prefix and postfix form, with a											
	b.											(IU Marks)	
6	a.	placed on static member functions. Give the examples for static data members member functions. b. Write a C++ programming example that illustrates the use of a base class pointer the derived objects. Mention which are all the member that a base class pointer of the derived objects.										restrictions s and static (10 Marks)	
	b.											er to access can access. (10 Marks)	
7	a.	a. What are the ambiguities that arise when multiple base classes are inherited, expla										lain with an	
	b.	example. Also mention the remedies for the same. b. Explain the protected base class inheritance with a program.									s for the same. eritance with a program.	(10 Marks) (10 Marks)	
8	a. b.	Ev	nlair	the	nat	ure (ոք v	irtual	funct	tio	on, with an example. >) and output (<<) operator, with an example.	(10 Marks) (10 Marks)	
