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Registration No. :							

BECS 2212

Third Semester Examination - 2013 C++ AND OBJECT ORIENTED PROGRAMMING

BRANCH: MINING, MINERAL, FAT, MM, PLASTIC, MME, CHEM, BIOMED, TEXTILE, FASHION. CIVIL, ENV, BIOTECH, ELECTRICAL, EEE

QUESTION CODE: C-479

Full Marks - 70

Time: 3 Hours

Answer Question No. 1 which is compulsory and any five from the rest. The figures in the right-hand margin indicate marks.

Answer the following questions: 1.

2×10

- What are the basic concepts of OOP? (a)
- (b) What is an Abstract Class?
- (c) Define Base class and Derived class.
- (d) What is a modifier?
- (e) What is an Iterator class ?
- What is the output of the following code: (f)

char symbol[3]={ 'a', 'b', 'c'};

for (int index=0; index<3; index++)

cout << symbol [index];

- What are the two operators used for Dynamic Memory management in C++? (g)
- How are binary files different from text files in C++? (h)
- Name the streams generally used for file I/O. (i)
- Write down the Try and Catch construct. (i)

(a)	What are the major differences between Object Oriented Programming a	ind
	Procedural Programming?	5
(b)	What is a constructor? What are its features?	5
(a)	What are the different forms of inheritance in C++?	5
(b)	What are the various ways of handling exceptions?	5
Wri	te a program to overload the operator '+' for complex numbers.	10
(a)	What is friend function? Explain the characteristics with a suitable examp	le.
		5
(b)	(4)	of
	(5)	5
(a)	How are template functions overloaded? Explain with a suitable example.	5
(b)	Write a program to overload the unary minus operator using friend function	on.
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		10
		(2
(a)	Function Prototyping	
(b)	Late Binding	
(c)	Object Slicing	
(d)	Namespace.	
	(a) (b) Writ (a) (b) Cre (a s a da disp Writ (a) (b) (c)	Procedural Programming? (b) What is a constructor? What are its features? (a) What are the different forms of inheritance in C++? (b) What are the various ways of handling exceptions? Write a program to overload the operator '+' for complex numbers. (a) What is friend function? Explain the characteristics with a suitable example. (b) What do you mean by static class members? Explain the characteristics static class members with suitable examples. (a) How are template functions overloaded? Explain with a suitable example. (b) Write a program to overload the unary minus operator using friend function. Create a class Patient that stores the patient name (a string) and the disease (a string) of the patient. From this class derive two classes: In_patient which has a data member room_rent (type float) and Out_patient which has a data member open rent (type float) and Out_patient which has a data member open rent (type float) and Out_patient which has a data member open rent (type float) and Out_patient which has a data member open rent (type float) and Out_patient which has a data member open rent (type float) and Out_patient which has a data member open rent (type float) and Out_patient which has a data member open rent (type float) and Out_patient which has a data member open rent (type float) and Out_patient which has a data member open rent (type float) and Out_patient which has a data member open rent (type float) and Out_patient which has a data member open rent (type float) and Out_patient which has a data member open rent (type float) and Out_patient which has a data member open rent (type float) and Out_patient which has a data member open rent (type float) and Out_patient which has a data member open rent (type float) and Out_patient which has a data member open rent (type float) and Out_patient which has a data member open rent (type float) and Out_patient which has a data member open rent (type float) and Out_patient which has a data member open rent (type float) and Out_patient which has a data

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