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Roll No. Total No. of Pages : 2 Total No. of Questions : 09 B.Tech.(CSE/ECE/ETE/IT) (Sem3) OBJECT ORIENTED PROGRAMING USING C++ Subject Code : BTCS-305 (2011 Batch) Paper ID : [A1129]			
Time :	: 3 Hrs.	Max. Marks:60	
<ul> <li>INSTRUCTION TO CANDIDATES :</li> <li>1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.</li> <li>2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.</li> <li>3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.</li> </ul>			
SECTION-A			
1. Ar	nswer briefly :		
a.	a. What are container classes?		
b.	b. What is the use of command line arguments?		
c.	c. What is explicit constructors?		
d.	Draw a flowchart for a program w Order $2 \times 2$ ?	hich adds two matrices of the	
e.	What is the concept of late binding an	nd early binding?	
f.	What is the role of classes in C++?		
g.	What is the difference between call by	reference and call by parameter?	
h.	What are operators << and >> used	for?	
i.	What function can be used to open a	file in C++?	
j.	What are pure virtual functions?		

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## **SECTION-B**

- 2. Write a program to Sort a list of strings into alphabetical order using an array of pointers.
- 3. How are structures in C different from a class? What is meant by dynamic initialization of a variable? Explain how memory is allocated to classes & objects.
- 4. Explain class objects. With the help of example explain how data hiding and encapsulation characteristics are achieved in C++
- 5. How do namespace help in preventing pollution of the global namespace?
- 6. Explain how new and delete operators manage memory allocation/deallocation dynamically?

## SECTION-C

- 7. How does C++ uses concept of reusability? Write a program in C++ to illustrate use of Polymorphism. What are various types of files? What are the various modes in which a file can be opened? Explain by giving examples.
- 8. What are the various types of inheritance in C++? Give an example of each. What are virtual functions and pure virtual functions? Explain the use of having abstract classes.
- 9. What are pure virtual functions? Explain the mechanism of virtual functions. Briefly describe the class hierarchy provided by C++ for stream handling.

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