(i)	Printed Pag	es: 2	Roll No		•••••	•••••	•••••
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Bachelor of Computer Applications 2nd Semester 1048

OBJECT ORIENTED PROGRAMMING USING C++ Paper-BCA-16-204

Time Allowed: Three Hours] [Maximum Marks: 65

Note: Attempt one question from each section and the entire compulsory question. All questions carry equal marks.

SECTION-A

- Object oriented programming allows the division of programs into objects that represent real world entities. Justify this statement along with its principal advantages.
- 2. Discuss the following:
 - (a) Reference variables
 - (b) Distinguish between new operator and malloc()
 - (c) Default arguments.

4,4,5

SECTION-B

3. Why can a friend function be not called using the object of the class to which it is friend? Explain its characteristics along with suitable examples.

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4.	(a)	Demonstrate an instance where operator overloading show be used for string manipulation operations.	ulc 6					
	(b)	Create a						
		SECTION-C						
5.	Define inheritance. What is the effect of inheritance on the visibility of members? Explain the concept of hybrid inheritance with a program.							
6.	How can we execute different versions of the same function with respect to polymorphism? What are the implications of making a virtual function pure?							
		SECTION-D						
7.	Describe the exception handling mechanism with a practical example. When do we use multiple catch handlers? 13							
8.		tinguish between opening a file using constructor and using () method. List the stream classes for file operations.						
		SECTION-E	٠					
	•	(Compulsory Question)						
9.	(a)	Inline functions	3					
	(b)	Operators that cannot be overloaded	3					
	(c)	Nesting of classes	3					
	(d)	Conversion from user to basic defined type.	4					
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