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LAUIII. Couc.								
Bachelor of Computer Application 2 nd Semester 1059								
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								
1.	1 de American Which access							
	specifier can help to achieve data hiding in C++? Demonstrate with an example program.							
2.	Disc	scuss the following:						
	(a)	Manipul			C	0.		
	(b)	Type cas					7,6	
SECTION-B								
1 C Ci d Constiguir a Ci d magazama 2								
3.	(a)	What is the need of a friend function in a C++ program? What are the rules of implementing it? 7						
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	(b)	How are static members accessed in C++?						
4.	(a)	Write a overload	_	n to add t	wo matric	ces using	operator 7	

6

Discuss copy constructor.

(b) How is a constructor different from an ordinary function?

SECTION-C

- 5. When should inheritance be used in an object oriented program?

 Describe multilevel inheritance and hybrid inheritance with practical examples.
- 6. Why is late binding important in OOPS? What is the role of virtual functions here? Demonstrate the implementation. 13

SECTION-D

- 7. What should be placed inside a try block? When do we use multiple catch handlers? What are the benefits achieved? 13
- 8. Describe the various classes available for file operations. What are the different ways of opening a file and which one is used when?

SECTION-E

(Compulsory Question)

2 Function overloading 9. (a) 2 Operators that cannot use friend functions (b) 2 Making a protected member inheritable (c) 3 File modes (d) Conversion from one class to another class type. 4 (e)