(i) Printed Pages : 2				Roll No							
(ii)	Que	stions	: 9	S	ub. Co	de:	0	9	2	2	
				Exa	ım. Co	de:	0	0	2	8	
Bachelor of Computer Application 2 <sup>nd</sup> Semester 1059											
(	OBJI	ECT OR	IENTEI Pap		GRAMI 4–16–20		USII	NG C	++		
Time Allowed : Three Hours] [Maximum Mar									rks :	65	
Note	:		t <i>one</i> ques		l questio					tire	
1.	Differentiate between encapsulation and abstraction. Which access										
	specifier can help to achieve data hiding in C++? Demonstrate										
	with an example program.									13	
2.	Disc	Discuss the following:									
	(a)	Manipu	lators								
	(b)	Type car	sting.							7,6	
				SECTIO	ON-B						
3.	(a) What is the need of a friend function in a C++ p									m ?	
	` ,		re the rule					•		7	
	(b)	How are static members accessed in C++?								6	
4.	(a)	Write a	a prograi ding.	m to ad	ld two	matrice	s us	ing (	pera	ator 7	
	(b)		a constru			om an o	rdina	ry fu	nctio	on ?	
0022	/FO2	<b>7</b> _18100		1				ITu	ırn c	ver	

## SECTION-C

5.	When	When should inheritance be used in an object oriented program?						
	Descr	ribe multilevel inheritance and hybrid inheritance with pra	ectical					
	examples.							
6.	Why is late binding important in OOPS? What is the role of vir							
	funct	tions 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.	Desc	Describe the various classes available for file operations. What are						
	the different ways of opening a file and which one is used who							
			13					
		SECTION-E						
		(Compulsory Question)						
9.	(a)	Function overloading	2					
	(b)	Operators that cannot use friend functions	2					
	(c)	Making a protected member inheritable	2					
	(d)	File modes	3					
	(e)	Conversion from one class to another class type.	4					