Total No. of Questions: 4
---------------------------

		~	a	-
Ρ.	•	•	ч	7

SEAT No.:	
SEAT No.:	

[Total No. of Pages: 1

[6186]-521

## S.E. (Computer Engg./Artificial Intelligence & Data Science/Computer Science & Design Engg.) (In Sem.) OBJECT ORIENTED PROGRAMMING (2019 Pattern) (Semester - III) (210243)

		(2019 Fattern) (Semester - 111) (210243)
Time	e:11	Hour] [Max. Marks: 30
Instr	uctio	ns to the candidates:
	1)	Attempt Q1 or Q2, Q3 or Q4.
	2)	Figures to the right indicate full marks.
	3)	Draw neat & labelled diagrams wherever necessary.
	4)	Assume suitable data, if necessary.
Q1)	a)	What are advantages of object oriented programming over procedural
		oriented programming? [4]
	b)	What is polymorphism? How does it relate to function overloading? [5]
	c)	What a class "Student" with attributes like name, roll number & mark.
	-,	Include member functions to set & display these attributes? [6]
		O'OR S
Q2)	a)	State differences between abstraction and encapsulation. [4]
	b)	What are C++ access specifiers? Write down their significance. [5]
	c)	Write a class "Calculator" with methods for addition, subtraction, multiplication
		and division functions. Create a object to perform arithmetic operation. [6]
03)	2)	Define Function overloading and Write a program for swapping two
(23)	<i>a)</i>	integer numbers, two float numbers and two characters using function
		overloading. [5]
		What is the use of 'this' pointer? Explain with example. [5]
	b)	Explain public, private and protected inheritance. And give example of
	c)	explain public, private and protected innertance and go or market protected Inheritance with explanation. [5]
		protected internative with expansion
		OR ON ON THE COMMONSTRATE
Q4)	a)	Define Function overriding in C++ and Write a program to demonstrate
		the same. [5]
	b)	What are types of inheritance. Explain them with syntax. [5]
	c)	Define function pointers? Give its Syntax of declaration, Referencing
	,	and Dereferencing. Write a program for it in C++. [5]
		0000