	of Questions: 8]		SEAT No.:
PD407	70		[Total No. of Pages : 2
	[64	02]-29	
S.I	E.(Electronics/E & T.C/Electr	-\forall =	puter Eng./Electronics
	Engineering (VI SI Design &	-	
	Communication - Advance		
	OBJECT ORIENTI	ED PROGRA	AMMING
	(2019 Pattern) (Se	mester - IV)	(204194)
Time: 21/2	7 0 \		[Max. Marks: 70
	ons to the candidates:		
1) 2)	Answer Q.1 or Q.2, Q.3 or Q.4, Q Neat diagrams must be drawn whe		Q.8.
<i>3</i>)	Figures to the right indicate full n		
4)	Use of Calculator is allowed.	,	. 🔆
5)	Assume suitable data, if necessary.	0 8:	^Y
Q1) a)	What is a friend function? WI friend function?	hat are the mer	its and demerits of using the [6]
b)	Give a programming example	that overloads	s = = operator with its use.[6]
c)	What is operator overloadin increment operators		s to overload Pre and Post
00)		OR	
Q2) a)	What is operator overloading operator?	ng? Why it is	necessary to overload an [6]
b)	Write a program to demonstra	ate friend funct	tion in $C++$. [6]
c)	What are the rules for overloa	nding operators	5? (6)
Q3) a)	What is inheritance? How to is Multiple base classes.	nherit a base cl	ass as Publicly? Explain it in [6]
b)	What is containment? Explain class. Objects of Date and Str class.		
(c)	What does inheritance mea inheritance? Give an example	_ Y	hat are different forms of [5]
		OR	
		(0)	<i>P.T.O.</i>

Q 4)	a)	the use of base and derived classes. [6]	
	b)	Discuss the role of access specifiers in inheritance and show their visibility when they are inherited as public, private and protected. [6]	
	c)	What is the ambiguity that arises in multiple inheritance? How it can be overcome. Explain with example. [5]	_
Q5)	a)	Explain exception handling mechanism in C++? Write a program in C++ to handle array index out of bound exception? [6]	
	b)	Explain class template using multiple parameters? Write a program in C++. [6]	
	c)	What is stream? Explain types of streams available in C++? [6]	J
Q6)	a)	Explain Namespace and merits in C++ with example? [6]	1
20)	b)	Write a C++ program using function template to swap two integers floating- point types and character data. [6]	,
	c) \(\)	What is user defined exceptions. Write down the scenario where we require user defined exceptions. [6]	
Q7)	a)	Write a program using the open (), eof () and getline () member function to open and read a file content line by line. [6]	
	b)	Explain the role of seekg (), seekp (), tellg (), tellp (), function in the process of random access in a file. [5]	
	c)	What is file mode? Explain any four file modes supported by C++. [6] OR	i ×
Q8)	a)	Write a program using put () to write characters to a file until user enters a # sign. [6]	
	b)	What is the difference between opening a file with constructor function and opening a file with open () function. [5]	
	c)	Explain error handling during file operation. [6]]
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[640)2]-2	2	