Total No	o. of Questions : 8]	26	SEAT No. :	
P911	6	N.	[Total	No. of Pages : 2
	[6179]-24	12		
S.E	. (Computer / Computer Science	e & Desig	n Engg./A	I&D.S.)
	OBJECT ORIENTEI	D PROGI	RAMMIN	G
	0, 30			
	(2019 Pattern) (Semes	ster-III) (	210243)	
Time: 2	½ Hours]		[7	Max. Marks : 70
Instructi	ions to the candidates:			
1)	Answer Q No.1 or Q.No.2, Q.No.3 or Q.N	o.4, Q.No.5	or Q.No.6, Q.	No.7 or Q.No.8.
2)	Neat diagrams must be drawn wherever n	iecessary.	3	$\cup$
3)	Assume suitable data if necessary.			•
<i>4</i> )	Use of Calculator is allowed.			
<b>Q1</b> ) a	Differentiate between compile to	time nolvi	norphism	and run time
21) 4	polymorphism.	time poisi		[5]
b).	How do you declare and define a b	ure virtual	function in	
	with help of a program.		<b>********</b>	[6]
cX	Write a C++ program for unary	increment	(++) and d	
•	operator overloading.	O.	( )	[6]
	OR	<i>y y y y y y y y y y</i>		
Q2) a)	What is operator overloading and	why it is	useful? Wh	ich Operators
	cannot be overloaded.	•		[5]
(b)	How virtual functions are impleme	ented in C+	+? Explain	with help of a
	program.			<b>[6]</b>
(2)	Write a program to binary (+) and b	binary (-) o	perator in C	++. (6]
				20
<b>Q3</b> ) a)	Explain the use of command lin			
	command line arguments what wil	-	ype of mair	~)
	explain its arguments along with exa	_		[5]
b)	Explain the following file handling f	functions (s	olve any thr	ee). [6]
	i) seekg()			
	ii) tellg()	,6	, 6,	
	iii) seekp()		0),	
- > .	iv) tellp()		9 D. 45 4 1 1 1 1	:41
C	Write a program Using the C++ file	- / _ /	-	-
<b>~</b>	get(), put(),close() methods for ope		•	
	file. Use append mode while openin	ig the the fo	or writing.	[7]
	OR	V		

<b>Q4</b> ) a)		while
	opening a file. (Any five).	[5]
(b)	Define a class Person that has three attributes viz name, gender and	d age.
	Write a C++ Program that writes an object to a file and reads an	object
	from a file.	[6]
, et	Explain what is fstream, ifstream and ofstream with help of example 1.	mple?
	Provide the hierarchy of stream classes in C++.	[7]
<i>Q5</i> ) a)	Discuss exception handling mechanism in C++ with syntax.	[5]
b	Write a program to handle exception using class type exception.	[6]
(c)	Demonstrate function template with suitable code in C++.	[6]
	OR	[0]
Q6) a	Explain exception handling in constructor, destructor.	[5]
<b>2 (b)</b>	Write a program to demonstrate class template with example.	[6]
$\langle c \rangle$	Demonstrate overloading function template with suitable code in C-	
	Demonstrate overloading raned on temprate with statutore code in o	1.[0]
Q7) a	What is an iterator? Explain how to use an iterator in C++ program	ı with
2//9/	example.	[5]
bi	What is an algorithm in STL? Enlist algorithms and explain any algo	
	in detail.	[6]
c)	What is a Map? Write a program to implement map in C++.	[7]
	OR	r, 1
Q8) a)	What is STL? Enlist and explain in short major components of ST	T. [5]
bà	What is iterator and algorithm? Explain each of them with example	
CX	What is a vector? Enlist and explain any 5 functions of vector by u	sing a
•	What is a vector? Enlist and explain any 5 functions of vector by u C++ program.	[7]
	o i programi	
	****	)
	96.	
	What is a vector? Enlist and explain any 5 functions of vector by u C++ program.	
	9.1	

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