Total No. of Questions: 8]		o. of Questions : 8] SEAT No. :		
P9116		[Total No. of Pages : 2		
		[6179]-242		
S.E. (Computer / Computer Science & Design Engg./A.I&D.S.)				
OBJECT ORIENTED PROGRAMMING				
(2019 Pattern) (Semester-III) (210243)				
Time:	21/	[Max. Marks: 70		
Instru	cti	ons to the candidates:		
1,	)	Answer Q.No.1 or Q.No.2, Q.No.3 or Q.No.4, Q.No.5 or Q.No.6, Q.No.7 or Q.No.8.		
2	)	Neat diagrams must be drawn wherever necessary.		
3,		Assume suitable data if necessary.		
4,	)	Use of Calculator is allowed.		
Q1) a	a)	Differentiate between compile time polymorphism and run time		
2-7	,	polymorphism. [5]		
1	b)	How do you declare and define a pure virtual function in C++? Explain		
		with help of a program. [6]		
(	c)	Write a C++ program for unary increment (++) and decrement ()		
		operator overloading. [6]		
		OR		
<b>Q2</b> ) a	a)	What is operator overloading and why it is useful? Which Operators		
		cannot be overloaded. [5]		
ł	b)	How virtual functions are implemented in C++? Explain with help of a		
		program.		
(	c)	Write a program to binary (+) and binary (-) operator in C++. [6]		
<b>Q3</b> ) a	1)	Explain the use of command line arguments. If we want to pass		
		command line arguments what will be prototype of main function and		
1		explain its arguments along with example. [5]		
ľ	b)	Explain the following file handling functions (solve any three). [6]		
		i) seekg()		
		ii) tellg()		
		iii) seekp()		
	· )	iv) tellp() Write a program Using the C++ file input and output class with open(),		
	2)	get(), put(),close() methods for opening, reading from and writing to a		
		file. Use append mode while opening the file for writing. [7]		
		OR OSE append mode with opening the for writing.		

<b>Q4</b> ) a		
	opening a file. (Any five).	[5]
ł	Define a class Person that has three attributes viz name, gender an Write a C++ Program that writes an object to a file and reads an	•
	from a file.	[6]
(	e) Explain what is fstream, if stream and of stream with help of example 2000 examp	
	Provide the hierarchy of stream classes in C++.	[7]
<b>Q</b> 5) a	) Discuss exception handling mechanism in C++ with syntax.	[5]
_	Write a program to handle exception using class type exception.	[6]
	c) Demonstrate function template with suitable code in C++.	[6]
	OR	[O]
<b>Q6</b> ) a	Explain exception handling in constructor, destructor.	[5]
ł	Write a program to demonstrate class template with example.	[6]
(	c) Demonstrate overloading function template with suitable code in C-	++.[6]
<b>Q</b> 7) a	) What is an iterator? Explain how to use an iterator in C++ program	n with
	example.	<b>[5]</b>
ł	b) What is an algorithm in STL? Enlist algorithms and explain any algorithms	orithm
	in detail.	[6]
(	What is a Map? Write a program to implement map in C++.	[7]
<b>Q</b> 8) a	what is STL? Enlist and explain in short major components of ST	L.[ <b>5</b> ]
_	What is it and an and algorithm? Explain analy of them with a yearnla	[6]
(	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]
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