Total No.	of Questions : 8] SEAT No. :	7				
PB363	[Total No. of Pages :	3				
S.E	E. (Computer Engineering)/(Computer Science & Design					
	Engineering)/(AI & DS)					
OBJECT ORIENTED PROGRAMMING						
(2019 Pattern) (Semester - III) (210243)						
Time : 2½ Instructio	Max. Marks : 70)				
	Answer Q.1 or Q.2, Q.3 or Q.4 Q.5 or Q.6, Q.7. or Q.8.					
	Draw Neat and Clean Diagram. Assume Suitable data, if necessary.					
	Figures of the rights indicate full marks.					
QI) a	Explain need of operator overloading. What are the rules to be followe when overloading an operator in C++? [5					
b)/	How virtual functions are implemented in C++? Explain with help of	a				
	program. [6]				
c)_	Define a class string and use binary overloaded operator (= =) to compar	e				
	two strings.					
Q2) a)	What is abstract base class in C++ polymorphism? Explain with program [5]	n.				
(b)	Explain Virtual destructor with the help of a program. [6]	` }				
	8.76 Eggs					
5)	Write C++ program to demonstrate use of unary operator ()				
~	overloading using member function and unary operator overloading (++	.)				
	using friend function. [6]				
1						
Q3) 2)	Explain the errror handling in file I/O. [5					

- Explain the two ways in which files can be opened, open () and Using constructor with a program.
- What is stream? Explain types of stream available in C++ i.e istream, ostream, ifstream and ofstream ostream, ifstream and ofstream. [7]

Q4) a)	List and Explain different Mode bits used in open () function, w	hile
	opening a file. (Any five)	[5]
• `		
(b)	Explain the command line argument in C++ Write a program to exp	
	the same.	[6]
c)	Which header file do we use for file handling? Explain the following	file
	handling functions	[7]
	i) seekg()	
	ii) tellg ()	
	6.7	
	iii) seekp()	
	iv) tellp()	
05) -)	W/h-4 i	:
Q5) a)	What is exception in C++? Explain each keyword to handle exceptio C++.	
	C++.	[5]
h)	What is template function? Explain with suitable example.	[6]
	what is template function: Explain with suitable example.	LOL
c)_	Explain class template. Write a program to demonstrate class temple	ate
	in C++.	[6]
	200.	
	OR OR	
Q6) a)	What do you mean by rethrowing exceptions. Write a program for	the
~ <	same.	[5]
b)	What is generic programming? How it is implemented in C++.	[6]
6		
c)	Write a program in C++ to demonstrate class type exception handling	g in
\	C++.	[6]
	Sp.	

Q7) a)	C++ program.	with [5]
, b)	Write a program to implement map in C++.	[6]
(c)	What is a container? What are various types of containers? Explain two containers in details. OR	any [7]
Q8) a)	What is the algorithm in STL? Explain sort function with example.	[5]
b)	What is a sequential container? List various sequential contain Compare arrays and vectors.	[6]
(5)	What is iterator? Write a program in C++ to demonstrate the use iterative	ator. [7]
[6261]-4		801. 100.
[6261]-4	3 × '	