Total No. of Questions—8]

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[5559]-186

S.E. (Computer) (First Semester) EXAMINATION, 2019 OBJECT ORIENTED PROGRAMMING (2015 PATTERN)

(2015 PATTERN)								
Time	:	2 Hours Maximum Marks:	50					
<i>N.B.</i>	:	(i) Answer Q. 1 or Q. 2, Q. 3 or Q. 4, Q. 5 or Q. 6 as Q. 7 or Q. 8.	nd					
		(ii) Neat diagrams must be drawn wherever necessary.						
		(iii) Figures to the right indicate full marks.						
		(iv) Assume suitable data, if necessary.						
		SECTION I						
Q1)	a) b)	What are inline functions? What are their advantages? Give an example. What do you mean by constructor and destructor? Write appropriate C++ program which uses copy constructor	_					
Q2)	a)	OR What is Multiple Inheritance? What is the ambiguity in Multiple inheritance? Give [6 suitable example to demonstrate Multiple inheritance	•]					
	b) c)	Explain the use of explicit and mutable keywords with suitable examples What is abstract class? Give suitable example [4]						
00)	•		i]					
Q3)	a) b)	What is Friend Function? Explain with suitable example Compare and contrast memory allocation and deallocation using new, delete [4]						
	c)	What is the concept of function pointers? Give suitable example in C++ [5]	5]					
		OR						
Q4)	a) b)	Explain class template and function template with an example What is Exception Handling? Explain How exception is handled in case of [6]	_					
	c)	constructor and destructor with Example Why we need templates in C++?	3]					
Q5)	a)	Write a program using the open(), eof() and getline() member functions to open and read file content line by line	5]					
	b)	What are the various functions to manipulate the file pointers? Explain with the help of Suitable examples	7]					
00		OR What are command line arguments in C++? Write a program that returns size in [1]	0]					
Q6)	a)	bytes of a file Provided as command line argument.	-1					
	b)	· · · · · · · · · · · · · · · · · · ·	3]					
Q7)	a)	Diapotate to the state of the s	6]					
• •	b		6]					

	,	help of Suitable examples	
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Q6)	a)	What are command line arguments in C++? Write a program that returns size in	[10]
		bytes of a file Provided as command line argument.	
	b)	Compare between early binding and late binding	
Q7)	a)	Elaborate forward, bidirectional and random- access iterators with examples.	[6]
ζ.,	ъ́)	What is a stack? How is it implemented using STL?	[6]
	-,	OR	
Q8)	a)	What is a container? List the container classes in C++. Explain any one of container Class using a program.	[6]
	b)	Write a program to implement Map using STL.	[6]