Total No. of Questions—**8**] [Total No. of Printed Pages—**2**

Seat No.	

[5559]-186

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

Time : 2 Hours **Maximum Marks : 50**

N.B. :— (*i*) Answer Q. **1** *or* Q. **2**, Q. **3** *or* Q. **4**, Q. **5** *or* Q. **6** and Q. **7** or Q. **8**.

(*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)	What are inline functions? What are their advantages? Give an example.	[6]
	b)	What do you mean by constructor and destructor? Write appropriate C++ program which uses copy constructor	[6]
		OR	
Q2)	a)	What is Multiple Inheritance? What is the ambiguity in Multiple inheritance? Give suitable example to demonstrate Multiple inheritance	[6]
	b)	Explain the use of explicit and mutable keywords with suitable examples	[4]
	c)	What is abstract class? Give suitable example	[2]
Q3)	a)	What is Friend Function? Explain with suitable example	[4]
	b)	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]
		OR	
Q4)	a)	Explain class template and function template with an example	[4]
	b)	What is Exception Handling? Explain How exception is handled in case of constructor and destructor with Example	[6]
	c)	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	[6]
	b)	What are the various functions to manipulate the file pointers? Explain with the help of Suitable examples	[7]
		OR	
Q6)	a)	What are command line arguments in C++? Write a program that returns size in bytes of a file Provided as command line argument.	[10]
	b)	Compare between early binding and late binding	[3]

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Q7) a) Elaborate forward, bidirectional and random- access iterators with examples. [6]

b) 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]

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