Total No. of Questions—8]

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S.E. (Computer) (First Semester) EXAMINATION, 2017 OBJECT ORIENTED PROGRAMMING (2015 PATTERN)

Time: Two Hours

Maximum Marks: 50

- N.B. :- (i) Answer Question 1 or 2, 3 or 4, 5 or 6 and 7 or 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

1. (a) Explain friend function with example.

[4]

(b) Consider the following declaration:

{

int trainno;

char dest[20];

float distance;

public:

void get(); //To read an object from the keyboard

void put(); //To write an object into a file

void show(); //To display the file contents on the monitor

};

Complete the member functions definitions

[8]

P.T.O.

2.	(a)	List the features of Object-oriented programming.	[3]
	(b)	What is Pointer, Smart Pointer and Shared Pointer. Exp	plair
		using diagram and program	[9]
3.	(a)	What is exceptional handling?	[3]
	(<i>b</i>)	Explain:	
		(i) Virtual base class	
		(ii) Abstract Class	[4]
	(c)	What is generic programming? How is it implemented in C	++?
			[5]
		063	
4.	(a)	Explain class template using multiple parameters. Write	te a
		program in C++.	[8]
	(b)	Explain the significance of Static keyword in programm	ing
			[4]
			3
5.	(a)	Write the C++ file input and output program using seek	g(),
		tellg(), read() etc member functions.	[7]
	<i>(b)</i>	What are cin and cout ? Explain iostream.	[6]
		Or	
3.	(a)	What are various functions which are used to manipulate	file
		pointers? Explain using examples	[7]
	(b)	Explain command line arguments in C++. Write program	to
		explain the same.	[6]

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- 7. (a) Use minimum 8 functions of vector STL. Write a program to explain the same. [7]
 - (b) What is STL? List different types of STL containers. [6]

Or

- 8. (a) Write a program to implement Map using STL [6]
 - (b) What is container? List the container classes in C++. Explain any one of them using program [7]

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