Seat	
No.	

[5252]-175

S.E (Information Technology) (I Semester) EXAMINATION, 2017 PROBLEM SOLVING AND OBJECT ORIENTED

PROGRAMMING

(2012 PATTERN)

Time: Two Hours

Maximum Marks: 50

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

- (ii) Neat diagram must be drawn wherever necessary.
- (iii) Figures to the right indicate full marks.
- (iv) Assume suitable data, if necessary.
- 1. (a) What is an algorithmic and heuristic solution to a problem? [6]
 - (b) What is cohesion and coupling? Why are cohesion and coupling important to programmers? [6]

Or

- 2. (a) Why is it important to maintain a naming convention within the company that is developing computer programs. [6]
 - (b) Create the algorithm and the flowchart to find the percentage result of all the students in a class using Automatic Counter Loop. Write pseudo code for same. [6]
- 3. (a) Write algorithm for Text Line Length Adjustment. [6]
 - (b) Explain need of object-oriented programming. [6]

P.T.O.

Or

4.	(a)	What are Table lookup techniques ? Explain any one Table	e
		lookup technique in detail. [6	[]
	(<i>b</i>)	Explain the terms : default and constant arguments. [6	[]
5 .	(a)	Explain need of function overloading. Write C++ program to	0
		demonstrate use of same. [6	[]
	(<i>b</i>)	Explain pure virtual function in detail. [7]
		Or	
6.	(a)	What is Polymorphism? What are its types?	[]
	(<i>b</i>)	What is inheritance? Explain types of Inheritance. [7]
7 .	(a)	Write a note on STL.	;]
	(<i>b</i>)	What is Multiple Exception Handing in C++ ? Give syntax	X
		of it in C++. [7]
		Or	
8.	(a)	Explain RTTI in detail. [6	[]
	(<i>b</i>)	How to manage console I/O operations ? [7]