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S.E. (Information Technology) (I Sem.) EXAMINATION, 2018 PROBLEM SOLVING AND OBJECT ORIENTED PROGRAMMING (2015 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 diagrams must be drawn wherever necessary.
 - (iii) Figures to the right indicate full marks.
 - (iv) Assume suitable data, if necessary.
- 1. (a) What is cohesion and coupling? Why are cohesion and coupling important to programmers? [6]
 - (b) What are operators? Explain different types of operators. Write precedence of it. [6]

Or

- 2. (a) What are the *three* types of decision logic structure? Explain with flowchart. [6]
 - (b) Create the algorithm and the flowchart to find the average age of all the students in a class using While/While End. Write pseudo code for same. [6]

P.T.O.

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3.	(<i>a</i>)	Explain features of object oriented programming in detail. [6]
	(<i>b</i>)	What is friend function? Give syntax for same. What are
		properties of friend function ? [6]
		Or Or
4.	(a)	Explain need of operator overloading. Write C++ program to
		demonstrate any unary operator overloading. [6]
	<i>(b)</i>	How memory management is carried out in C++? Write syntax
		for the same. [6]
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5.	(a)	Explain need of function overloading. Write C++ program to
		demonstrate function overloading. [6]
	(b)	What is inheritance? What are different types of inheritance? [7]
	(0)	what is inheritance: what are unferent types of inheritance: [7]
6.	(<i>a</i>)	Explain virtual function and pure virtual function. [6]
	<i>(b)</i>	Explain template in C++. Write a generic function to sort the
		integer and float array using function template. [7]
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7.	(~)	Write a note on Standard Templete Library [6]
1.	(a)	Write a note on Standard Template Library. [6]
	<i>(b)</i>	Which Classes are used in file stream operations? Explain
		in detail. [7]
		Or
8.	(<i>a</i>)	Explain Namespaces. What are rules for namespaces ? [6]
	(<i>b</i>)	How to manage console I/O operations ? Explain with
		example. [7]