Total No. of Questions-8]

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Seat	
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[5459]-205

S.E. (Information Technology) (I Sem.) EXAMINATION, 2018 PROBLEM SOLVING AND OBJECT ORIENTED PROGRAMMING

(2015 PATTERN)

Time : Two Hours

2.

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

- (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.

- Explain features of object oriented programming in detail. [6] 3. (a)
 - What is friend function? Give syntax for same. What are *(b)* properties of friend function ? [6]

Or

- Explain need of operator overloading. Write C++ program to 4. (a)[6] demonstrate any unary operator overloading.
 - *(b)* How memory management is carried out in C++ ? Write syntax for the same. [6]
- Explain need of function overloading. Write C++ program to 5. (a)demonstrate function overloading. [6]
 - What is inheritance ? What are different types of inheritance ? [7] *(b)*

Or

- Explain virtual function and pure virtual function. **6**. (a)[6]
 - Explain template in C++. Write a generic function to sort the *(b)* integer and float array using function template. [7]
- Write a note on Standard Template Library. [6] 7. (a)Which Classes are used in file stream operations ? Explain (b)1800 in detail. [7]

Or

- 8.
- Explain Namespaces. What are rules for namespaces ? (a)[6] How to manage console I/O operations ? Explain with *(b)* example. [7]

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