

Total No. of Questions—8]

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[4957]-1085**S.E. (Information Technology)****(First Semester) EXAMINATION, 2016****PROBLEMS SOLVING AND OBJECT****ORIENTED PROGRAMMING****(2012 PATTERN)****Time : Two Hours****Maximum Marks : 50**

- N.B. :—** (i) Solve Q. No. 1 or Q. No. 2, Q. No. 3 or Q. No. 4,
Q. No. 5 or Q. No. 6, Q. No. 7 or Q. No. 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 are different types of operator ? Give Hierarchy/Precedence of operations. [6]
- (b) Explain the terms : Local variables, global variable, parameters. [6]

Or

2. (a) Write a note on "Top Down design" to solve problem. [6]

P.T.O.

- (b) Explain decision logic structure and its **3** types with the help of flowchart. [6]
- 3.** (a) Write algorithm for finding maximum element from given array. [6]
- (b) Differentiate between POP and OOP. [6]

Or

- 4.** (a) Write algorithm for Text Line Length Adjustment. [6]
- (b) What are features of object oriented programming ? Explain any *six* features in detail. [6]
- 5.** (a) Write C++ program to demonstrate use of binary ("+") operator overloading to add two complex numbers using member function. [6]
- (b) What is Polymorphism ? Explain its types in detail. [7]

Or

- 6.** (a) What are rules for operator overloading ? [6]
- (b) Explain inheritance and its types. Explain multiple inheritance in detail with syntax. [7]

7. (a) Write a note on Standard Template Library. [6]
- (b) What are C++ stream classes for console operations ? Explain it in detail with the help of diagram. [7]

Or

8. (a) Explain `put()`, `write()`, `getline()` unformatted I/O operations. [6]
- (b) How exceptions are handed in C++ ? Explain in detail. [7]

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