

Total No. of Questions—8]

[Total No. of Printed Pages—3

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[5352]-539

S.E. (E&TC/Elex) (Second Semester) EXAMINATION, 2018

**OBJECT ORIENTED PROGRAMMING**

**(2015 PATTERN)**

**Time : Two Hours**

**Maximum Marks : 50**

**N.B. :—** (i) Neat diagrams must be drawn wherever necessary.

(ii) Figures to the right indicate full marks.

(iii) Assume suitable data if necessary.

1. (a) Explain the basic concepts and features of OOP. [6]
- (b) Discuss the significance of Input/Output operators in C++ and their equivalence with 'C'. [3]
- (c) Discuss the usage of the operators that cannot be overloaded in C++. [3]

*Or*

2. (a) What is a constructor ? Discuss its types with suitable examples. [6]
- (b) Explain the concept of Inheritance in C++ with a suitable example. What are its types ? [6]

P.T.O.

3. (a) Explain in brief the different data types in Java. [6]  
(b) What are command line arguments ? Explain their significance with suitable example. [7]

*Or*

4. (a) Explain appropriately the following : [6]  
(i) The this keyword.  
(ii) finalize( ).  
(b) Discuss Access Control in Java and its significance. [3]  
(c) What is the significance of Static Members in Java ? Explain with example. [4]

5. (a) Describe different forms of inheritance in JAVA. Explain the syntax of single inheritance. [6]  
(b) What is an interface in JAVA, Write similarities and differences between an interface and a class ? [6]

*Or*

6. (a) What is Package ? How do we add a class or an interface to a package in JAVA. [6]  
(b) Describe the various four forms of implementing interfaces in JAVA. [6]

7. (a) What is a thread in JAVA ? Explain single threaded and multithreaded program. What is difference between multiprocessing and multithreading ? [7]

(b) What is an exception in JAVA ? How do we define a try block and a catch block ? [6]

*Or*

8. (a) What is an applet in JAVA ? Explain a local applet and a remote applet ? [6]

(b) Write a program in JAVA to create multiple threads and demonstrate how two threads communicate with each other ? [7]