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**[5252]-539**

**S.E. (E&TC/Elect.)(Second Semester) EXAMINATION, 2017**

**OBJECT ORIENTED PROGRAMMING**

**(2015 PATTERN)**

**Time : Two Hours**

**Maximum Marks : 50**

**N.B. :—** (i) Answer 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 side indicate full marks.

(iv) Use of calculator is allowed.

(v) Assume suitable data if necessary.

1. (a) Differentiate between Procedure oriented programming and  
Object oriented programming. [6]

(b) How to create reference variable in C++ ? Explain with  
example. [6]

*Or*

2. (a) Define Inheritance. Explain different types of inheritance. [3]

(b) How is memory allocated to a class and objects in C++ ? [3]

(c) Explain the following terms with example [6]

(i) Data Encapsulation and Data Abstraction.

(ii) Scope Resolution Operator.

P.T.O.

3. (a) Describe the features of JAVA. [6]  
(b) Write short notes on : [7]  
(i) Control Statements in JAVA.  
(ii) Command line Arguments.
- Or*
4. (a) Define Class in JAVA. How are objects created from a class? [6]  
(b) What is Recursion ? Write a program to print array elements using Recursion. [7]
5. (a) What are Abstract Classes ? Explain with example. [6]  
(b) Differentiate between Interface and a Class. [6]
- Or*
6. (a) Write short notes on : [6]  
(i) Object Class.  
(ii) Use of final with inheritance.  
(b) Explain Package in detail with suitable example. [6]
7. (a) What is Multithreading ? Explain in detail. [7]  
(b) Explain Byte stream and character stream. [6]
- Or*
8. (a) How to create a simple Applet ? Explain with example. [7]  
(b) Explain the terms : [6]  
(i) Reading Console inputs.  
(ii) Writing Console output.