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Seat No.	
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[5559]-141

S.E. (E&TC/Electronics) (II Semester) EXAMINATION, 2019

OBJECT ORIENTED PROGRAMMING

(2015 PATTERN)

Time : Two Hours

Maximum Marks : 50

N.B. :— (i) Attempt *all* questions.

(ii) Figures to the right indicate full marks.

1. (a) Write a C++ program to swap two integer numbers. Write separate swap function using reference variable. [6]
- (b) What is constructor in C++ ? Explain types of constructors with suitable examples. [6]

Or

2. (a) Explain the following C++ terms with example : [6]
 - (i) Abstraction and polymorphism
 - (ii) Scope resolution operator.
 - (b) Explain inheritance and its types in C++. Explain multiple inheritance in detail with syntax. [6]
3. (a) What is JDK ? How is it different from JRE and JVM ? Enlist different tools of JDK. [7]
 - (b) What is the use of 'this keyword' in Java ? Explain with suitable examples. [6]

P.T.O.

Or

4. (a) What is class in Java ? How are objects created from a class in Java ? [6]
- (b) What is recursion ? Write a Java program to find factorial of number using recursion. [7]
5. (a) What do you mean by Abstract classes in Java ? Explain with example. [6]
- (b) Write a Java program to create a player class. Inherit cricket player and football player class from player class using inheritance technique. [7]

Or

6. (a) Write three differences between method overloading and method overriding. Also give examples of each. [7]
- (b) Explain package in detail with suitable program. [6]
7. (a) Explain the concept of multithreading. How to extend the thread class. [6]
- (b) With the help of suitable diagram, explain life-cycle of an applet. [6]

Or

8. (a) Explain exception handling in Java with the help of suitable example. [6]
- (b) Explain the terms : [6]
- (i) Reading console input
- (ii) Writing console output.