Total No. of Questions-8]

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

(2015 **PATTERN**)

Time : Two Hours

Seat

No.

Maximum Marks : 50

- N.B. :- (i) Attempt all questions.
 (ii) Figures to the right indicate full marks.
- (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]
- 2. (a) Explain the following C++ terms with example :
 (i) Abstraction and polymorphism
 (ii) Scope resolution operator.

Or

- (b) Explain inheritance and its types in C++. Explain multiple inheritance in detail with syntax. [6]
- (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.

3.

- What is class in Java ? How are objects created from a class 4. (a)in Java? [6]
 - (*b*) What is recursion? Write a Java program to find factorial of number using recursion. [7]
- 5. What do you mean by Abstract classes in Java ? Explain with (a)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]
- 6. Write three differences between method overloading and method (a)overriding. Also give examples of each. [7]
 - (*b*) Explain package in detail with suitable program. [6]
- Explain the concept of multithreading. How to extend the thread 7. (a)class. [6]
 - With the help of suitable diagram, explain life-cycle of an (*b*) [6] applet.

Or

8.

ith Alan Explain exception handling in Java with the help of suitable (a)example. [6]

[6]

- (*b*) Explain the terms :
 - Reading console input (i)
 - (ii)Writing console output.

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