Hall Ticket Number :										

R-15

Code: 5G466

III B.Tech. II Semester Regular & Supplementary Examinations May 2019

Object Oriented Programming Concepts

(Electrical and Electronics Engineering)

Max. Marks: 70 Time: 3 Hours

Answer *all five* units by choosing one question from each unit (5 x 14 = 70 Marks)

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UNIT–I

1. a) List and explain the elements of object oriented programming. 7M
   b) Explain merits and demerits of Object Oriented methodology. 7M

OR

2. a) What is an array? How arrays are declared and initialized? Explain with examples. 7M
   b) What is a reference variable? Explain the usage of reference variable. 7M

UNIT–II

3. a) Explain function overloading and operator overloading with examples. 7M
   b) When do you use virtual base class? Explain with suitable example 7M

OR

4. a) Explain 'this' pointer with an example program. 4M
   b) Write a program to display all odd numbered files of a text file. 10M

UNIT–III

5. a) What are the operators available in java? Explain them in detail. 7M
   b) Discuss about primitive data types. 7M

OR

6. a) List five major difference between JAVA and C++. 7M
   b) Write the structure of java program. 7M

UNIT–IV

7. a) What is a package? How do you create a package in JAVA? 7M
   b) How to define a user exception in a program? Illustrate with an example. 7M

OR

8. Give a detail note on interfaces and packages in java with examples. 14M

UNIT–V

9. a) Describe Java's thread model. 7M
   b) Explain thread class extending in JAVA with suitable example. 7M

OR

10. a) What is an applet? Explain its life cycle. 7M
    b) Write a simple applet program to display a string "India won by 6 wickets". 7M

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UNIT–I

1. a) Explain Object oriented programming paradigm. Distinguish between Objects and Classes. 8M
   b) Briefly explain the merits and demerits of Object Oriented Programming. 6M

OR

2. a) What are constructors? Explain constructor overloading with an example program. 7M
   b) Describe the benefits offered by OOP. What is dynamic binding? Explain how it works with an example. 7M

UNIT–II

3. a) What is inheritance? Write a C++ program explaining multiple inheritances. 7M
   b) What is pure virtual function? Write a program to demonstrate polymorphism of functions. 7M

OR

4. a) What are friend functions? Write a program to demonstrate the concept of friend functions. 8M
   b) Give a program to explain the concept of Virtual base class. 6M

UNIT–III

5. a) Explain about decision making statements in Java. 7M
   b) List the eight basic data types in Java with examples. 7M

OR

6. a) Mention the basic parts of Methods Declaration in Java. Discuss the concept of method overloading in Java. 7M
   b) What is a string buffer class? Write a program to arrange the strings in alphabetical order. 7M

UNIT–IV

7. a) What is an interface? Distinguish between an interface and a class. 8M
   b) Write a program to explain the process of accessing interface variables. 6M

OR

8. a) What are exceptions in Java? Write about the common exceptions that occur in Java. 7M
   b) Explain exception handling mechanism in Java. 7M

UNIT–V

9. a) Discuss the Life Cycle of a Thread using a state transition diagram. 8M
   b) Explain the implementation of yield () and stop () methods through an example program. 6M

OR

10. a) How are parameters passed to an applet? Explain with an example program. 7M
    b) How do applets differ from application programs? 7M

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UNIT–I

1. a) What are the problems with procedure languages? How object oriented languages overcomes the problems of procedural languages? 10M

   b) Give a brief note on Java Virtual Machine. 4M

OR

2. a) Define constructor. Explain different types of constructors with example. 7M

   b) Write short note on destructor. Explain with suitable example. 7M

UNIT–II

3. Explain the different types of inheritance in C++ with an example 14M

OR

4. a) What is operator overloading? Write a program to overload the + operator. 7M

   b) What is a friend function? Explain merits and demerits of friend function. 7M

UNIT–III

5. a) List various types of statements and quote suitable examples for each type. 7M

   b) List the various data types in JAVA with suitable example. 7M

OR

6. a) Explain the conditional instructions in detail. 7M

   b) Explain the following string handlings with suitable example.
   i. String length ii. Character Extraction iii. String comparison 7M

UNIT–IV

7. What is an exception? Explain exception handling in java with examples. 14M

OR

8. a) Explain Creating Packages and Accessing a Package with examples 7M

   b) What is meant by inheritance? How can you achieve multiple-inheritance in JAVA? 7M

UNIT–V

9. a) Explain thread life cycle with a neat diagram 7M

   b) Explain thread creation in Java 7M

OR

10. a) Write an applet program that has different shapes in it. 7M

    b) Explain the method of parameter passing to an applet. 7M

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