Code: 19CS3302

II B.Tech - I Semester – Regular Examinations – MARCH 2021

OBJECT ORIENTED PROGRAMMING
(COMPUTER SCIENCE & ENGINEERING)

Duration: 3 hours   Max. Marks: 70

Note: 1. This question paper contains two Parts A and B.
   2. Part-A contains 5 short answer questions. Each Question carries 2 Marks.
   3. Part-B contains 5 essay questions with an internal choice from each unit. Each question carries 12 marks.
   4. All parts of Question paper must be answered in one place

PART – A

1. a) How would you describe JVM?
   b) What can you say about method overloading?
   c) What is the use of Wrapper classes in Java?
   d) Write the advantage of "finally" in Java.
   e) Illustrate the use of hashCode() in Java.

PART – B
<u>UNIT – I</u>

2. a) Differentiate between Procedural Programming vs. Object Oriented Programming.   6 M

   b) Explain about Java Features.   6 M

OR

3. a) Write short notes on control statements in Java.   6 M

   b) Write a Java program that illustrates StringBufffer class.   6 M

UNIT – II

4. a) Write a Java program to illustrate the use of static keyword. 6 M

    b) Explain about constructor overloading concept with suitable example. 6 M

OR

5. a) Why multiple inheritance is not supported in Java? Share your thoughts. 6 M

    b) Illustrate the use of super keyword with suitable example. 6 M

UNIT-III

6. a) Can you identify and explain the differences between interfaces and classes in Java? 6 M

    b) What is the use of extending interfaces? Justify your answer with a suitable example. 6 M

OR

7. a) Illustrate the procedure of creating and accessing a package with an example. 6 M

    b) Explain about the Object class in Java. Illustrate its methods. 6 M

UNIT – IV

8. a) Why do you think exception handling is useful in Java? Explain briefly?   6 M

    b) What approach would you use to handle the uncaught exceptions in Java? Give an example.   6 M

OR

9. a) What is the main idea of multitasking in Java? Give suitable example.   6 M

    b) Explain about Thread Synchronization in Java.   6 M

UNIT – V

10. a) Why is Collection Framework needed in Java? Explain.   6 M

    b) Explain about the importance of the method equals() with an example.   6 M

OR

11. a) What is the importance of stacks in Java? Explain with example.   6 M

    b) Explain about maps in Java.   6 M