Subject Title: **Project Based Learning in Java**

Subject Code: **20CST319/20ITT319**

Semester: **5th**

Time: 3 Hour Maximum Marks: 60

**Instructions: Attempt all questions**

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| Q. No | Statement | CO mapping |
| **Section A**  5 x 2 = 10 marks | | |
| 1 | Differentiate private and protected access modifier. | CO 1 |
| 2 | What is difference between wait() and sleep() method? | CO 2 |
| 3 | Difference between forward() method and sendRedirect() method ? | CO 1 |
| 4 | What is DOM Parser and its interfaces? | CO 3 |
| 5 | Recall the working of init() method of a servlet. | CO 3 |
| **Section B**  4 x 5 = 20 marks | | |
| 6 | Write program for default constructor, parametrized constructor. How we can access default and parameterized constructor of parent class write code to justify your answer. | CO 2 |
| 7 | Write the steps to connect to the database in java. Write a program using prepared statement interface. | CO 3 |
| 8 | Elaborate XML, its role in web development. Explain the structure of XML program with suitable example. | CO 2 |
| 9 | Explain various scriplets tags in JSP with the help of program. | CO 3 |
| **Section C**  3 x 10 = 30 marks | | |
| 10 | Distinguish between final, finally and finalize. Write code to differentiate between final, finally and finalize in Java? | CO 3 |
| 11 | **Explain various inputStream classes. Write program for FileInputStream and FileOutputStream?** | CO 5 |
| 12 | What is ServletConfig and ServletContext, its advantages. Differentiate between ServletConfig and ServletContext with the help of program. | CO 4 |