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 | List 5 checked and unchecked exception. | CO 1 |
| 2 | What is difference between user Thread and daemon Thread? | CO 2 |
| 3 | Difference between servlet and CGI. | CO 1 |
| 4 | Differentiate forward and include method. | CO 3 |
| 5 | What is RMI? | CO 3 |
| **Section B**  4 x 5 = 20 marks | | |
| 6 | How user defined exceptions are defined? When it is used? Write code to create user defined exception. | CO 2 |
| 7 | What is Junit, its advantages and explain with code all the assert methods. | CO 3 |
| 8 | Explain the servlet life cycle with diagram and explain its life cycle methods in detail. | CO 2 |
| 9 | Explain JSTL and differentiate between SAX parser and DOM parser? | CO 3 |
| **Section C**  3 x 10 = 30 marks | | |
| 10 | Draw Java Exception class Hierarchy and Write program to differentiate between number format exception and input mismatch exception? | CO 3 |
| 11 | Distinguish between HashSet and HashMap. Write program to show the difference between HashSet and HashMap? | CO 5 |
| 12 | What is the purpose of DTD in XML. How to use DTD in xml code. | CO 4 |