

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
B.Tech Degree S7 (R,S) Examination November 2025 (2019 Scheme).

Course Code: CST455

Course Name: OBJECT ORIENTED CONCEPTS

Max. Marks: 100**Duration: 3 Hours**

PART A

Answer all questions, each carries 3 marks.

Marks

- | | | |
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| 1 | Justify the statement 'Java is platform independent'. | (3) |
| 2 | Explain Java Virtual Machine. | (3) |
| 3 | Explain the Jump statements in Java. | (3) |
| 4 | Define method overloading. Illustrate with an example. | (3) |
| 5 | Is multiple inheritance possible in Java. Justify your answer. | (3) |
| 6 | Differentiate checked and unchecked exceptions. | (3) |
| 7 | Describe the two stream classes in Java. | (3) |
| 8 | Compare String Buffer and String. | (3) |
| 9 | Briefly describe Delegation Event Model. | (3) |
| 10 | Explain any three features of Swing in Java. | (3) |

PART B

Answer any one full question from each module, each carries 14 marks.

Module I

- | | | |
|----|--|-----|
| 11 | a) Explain the object-oriented principles of Java. | (8) |
| | b) Describe garbage collection in Java with the help of a diagram. | (6) |
| OR | | |
| 12 | a) Explain the primitive data types in Java. | (8) |
| | b) Describe any 4 Java buzzwords. | (6) |

Module II

- 13 a) Explain iteration statements used in Java. (8)
b) Describe the access control methods used in Java. (6)

OR

- 14 a) Explain any 3 types of operators used in Java. (9)
b) Illustrate the use of 'this' keyword with suitable programs. (5)

Module III

- 15 a) Compare and contrast method overloading and method overriding. (8)
b) Explain the use of 'final' keyword. How is it different from 'finally'? (6)

OR

- 16 a) Explain exception handling mechanism in Java. (10)
b) Differentiate the use of 'throw' and 'throws' in exception handling. (4)

Module IV

- 17 a) Explain the various String handling functions with examples. (14)

OR

- 18 a) Demonstrate how to read and write inputs and outputs in Java. (8)
b) Explain PrintWriter class. (6)

Module V

- 19 a) Explain the life cycle of a thread. (10)
b) Explain is Model View Controller (4)

OR

- 20 a) Explain the Event Handling Mechanism in Java. (14)
