

Reg No.: \_\_\_\_\_

Name: \_\_\_\_\_

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**

SECOND SEMESTER M.C.A. DEGREE EXAMINATION(R&amp;S), MAY 2019

**Course Code: RLMCA102****Course Name: OBJECT ORIENTED PROGRAMMING**

Max. Marks: 60

Duration: 3 Hours

**PART A***Answer all questions, each carries 3 marks.*

Marks

- |   |                                                                                         |     |
|---|-----------------------------------------------------------------------------------------|-----|
| 1 | Explain the significance of 'static' keyword in Java. Why main() is declared as static? | (3) |
| 2 | Why Java is called a robust language?                                                   | (3) |
| 3 | How Java achieves run-time polymorphism? Explain.                                       | (3) |
| 4 | Explain the uses of 'final' modifier in inheritance.                                    | (3) |
| 5 | What is a package? How it can be created and accessed?                                  | (3) |
| 6 | Differentiate between checked and unchecked exceptions with examples.                   | (3) |
| 7 | Explain the use of BufferedReader class in Java.                                        | (3) |
| 8 | Explain how an arc can be drawn in Java with an example.                                | (3) |

**PART B***Answer any one question from each module. Each question carries 6 marks.***Module I**

- |   |                                                                                       |     |
|---|---------------------------------------------------------------------------------------|-----|
| 9 | Differentiate between object oriented programming and procedure oriented programming. | (6) |
|---|---------------------------------------------------------------------------------------|-----|

**OR**

- |    |                                                              |     |
|----|--------------------------------------------------------------|-----|
| 10 | How constructors can be overloaded? Explain with an example. | (6) |
|----|--------------------------------------------------------------|-----|

**Module II**

- |    |                                                                            |     |
|----|----------------------------------------------------------------------------|-----|
| 11 | Explain with an example how multilevel inheritance is implemented in Java. | (6) |
|----|----------------------------------------------------------------------------|-----|

**OR**

- |    |                                                         |     |
|----|---------------------------------------------------------|-----|
| 12 | Explain the features of abstract class with an example. | (6) |
|----|---------------------------------------------------------|-----|

**Module III**

- 13 (a) How to reverse a string in Java with and without using StringBuffer class. (3)  
(b) Explain how arrays are created and initialized. (3)

**OR**

- 14 Explain the different levels of access protection available in Java. (6)

**Module IV**

- 15 Explain life cycle of a thread with a neat diagram. (6)

**OR**

- 16 (a) Explain the need of multiple catch statements in Exception handling with an example. (3)  
(3)  
(b) What is the purpose of using finally statement in Java. Explain with an example.

**Module V**

- 17 Demonstrate serialization and deserialization in Java with a suitable program. (6)

**OR**

- 18 Write a Java program to append data to a Random access file. (6)

**Module VI**

- 19 (a) What are the different attributes of an Applet tag? (3)  
(b) Create an applet that accepts a number as a parameter and displays 'EVEN' if it is an even number or 'ODD' if it is odd. (3)

**OR**

- 20 Write a program for sending a message from the client to the server and the server displays that message using connection-oriented socket programming. (6)

\*\*\*\*