# LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

**B.Sc.** DEGREE EXAMINATION – **COMPUTER SCIENCE**

SIXTH SEMESTER – **APRIL 2023**

**16/17/18UCS6MC02 – PROGRAMMING IN JAVA**

Date: 03-05-2023    Dept. No. [          ]    Max. : 100 Marks
Time: 09:00 AM - 12:00 NOON

## PART – A

**Answer all the questions**                                                    **(10x2 = 20 marks)**

1. What is JVM? Mention the use of it.
2. What is dynamic binding?
3. Write the syntax for conditional operator.
4. List out the logical operators in java.
5. What is constructor in java? Give an example.
6. What is abstract class?
7. What is Thread in java? How to set thread priority?
8. What is exception handling?
9. What is applet program?
10. Write the syntax to load the JDBC driver.

## PART – B

**Answer all the questions**                                                    **(5x8=40 marks)**

11. a). Write a short notes on any four concepts of OOP.
                        (Or)
    b) Explain type casting with an example.

12. a). Write a short notes on different type of operators in Java.
                        (Or)
    b) Explain about different types of looping statements.

13. a) Write a java program for method overloading.
                        (Or)
    b) Write short notes on interface in Java.

14. a) Write a java program to create button and text box in swing.
                        (or)
    b) Write a short note on thread life cycle in Java.

15. a) Write the procedure for java database connectivity.

    b). Write a java applet program to draw the image in the webpage.

## PART- C

**Answer any Two questions**                                                    **(2x 20 =40 marks)**

16. a). Discuss in detail about the key features of java.

    b). Write a java program for all basic arithmetic operation.

17. a). Discuss in detail about constructor with a suitable program.

    b).Write a java program to create thread with 3 classes.

18. a) Discuss in detail about applet life cycle.

    b) Write a java program to fetch the data from the Access database 'Loyola' , table  called 'student'

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