10-lylaplus (CO2) woulT (f) (iii) Finally 5. (a) Discuss thread in Java Explain how it is different from multithreading. Write a life cycle of threading in Java. 10 Marks (CC (b) Write a Java progress to show the implementation of multituenting in lava.

H Roll No.

show the implementation of multiple

TBC-301

B. C. A. (THIRD SEMESTER) MID SEMESTER EXAMINATION, 2021

JAVA PROGRAMMING

Time: 11/2 Hours

Maximum Marks: 50

- Note: (i) Answer all the questions by choosing any *one* of the sub-questions.
 - (ii) Each question carries 10 marks.
- 1. (a) Define JVM and its need in Java Programming. Explain by using suitable diagrammatic representation.

10 Marks (CO1)

OR

(b) Define abstraction in Java. Write a program to show the implementation of an abstract class and abstract methods in Java.

10 Marks (CO1)

2. (a) Define Inheritance. Write a program to show the implementation of multiple inheritance in Java. 10 Marks (CO1)

OR PROPERTY A DIES

(b) Write short notes on the following:

оминия дероя я 10 Marks (CO1)

- (i) Inner class
- (ii) Static class
- (iii) Packages
- (iv) Method overriding
- 3. (a) Explain wrapper classes in Java. Write a

 Java program to perform the basic
 arithmetic operations. 10 Marks (CO1)

OR

(b) Define constructors and its types supported by Java. Write a java program to show the implementation of constructors in Java. 10 Marks (CO1)

4. (a) Define exceptions in Java. Explain the role of exception handling in Java. Write a Java program to show the implementation of ArrayIndexOutOfBound exception in Java.

10 Marks (CO2)

OR:

(b) Write short notes on the following:

10 Marks (CO2)

- (i) Throw
- (ii) Throws
- (iii) Finally
- (iv) Errors
- 5. (a) Discuss thread in Java. Explain how it is different from multithreading. Write a life cycle of threading in Java.

10 Marks (CO2)

OR

(b) Write a Java program to show the implementation of multithreading in Java.

10 Marks (CO2)

TBC-301

430

£ 7. O.