

Code No: 137FB

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, December - 2019

OBJECT ORIENTED PROGRAMMING THROUGH JAVA

(Electronics and Communication Engineering)

Time: 3 Hours

Max. Marks: 75

Note: This question paper contains two parts A and B.  
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b as sub questions.

## PART - A

(25 Marks)

- |      |  |     |
|------|--|-----|
| 1.a) | List the different data types used in java.              | [2] |
| b)   | Summarize the use of "final" keyword with inheritance.   | [3] |
| c)   | What is the role of CLASSPATH in Packages?               | [2] |
| d)   | Write short notes on Byte streams and Character streams. | [3] |
| e)   | Explain the Fundamentals of exception handling.          | [2] |
| f)   | Interpret the different thread priorities.               | [3] |
| g)   | What is Scanner?   | [2] |
| h)   | Define Hashtable.  | [3] |
| i)   | What are the limitations of AWT?                         | [2] |
| j)   | Illustrate the life cycle of an Applet.                  | [3] |

## PART - B

(50 Marks)

- |       |   |       |
|-------|---|-------|
| 2.    | What is Constructor? Discuss about the Constructor overloading with an example in Java. | [10]  |
| OR    |   |       |
| 3.    | Explain briefly about the features (buzzwords) of Java.                                 | [10]  |
| 4.    | Explain different ways to extending interfaces with an example.                         | [10]  |
| OR    |   |       |
| 5.    | Discuss the importance of package. Demonstrate with program.                            | [10]  |
| 6.    | Explain briefly about exception handling mechanism with suitable examples.              | [10]  |
| OR    |   |       |
| 7.    | Simplify the process of creating thread by implementing Runnable interface.             | [10]  |
| 8.    | What is Map Interface? Briefly explain about the Legacy classes and interfaces.         | [10]  |
| OR    |   |       |
| 9.    | What is Formatter? Discuss about More Utility classes.                                  | [10]  |
| 10.a) | Distinguish between applet and application.   |       |
| b)    | Explain in detail about Event sources and Listeners.                                    | [4+6] |
| OR    |   |       |
| 11.a) | Compare and contrast Swing and AWT in java.   |       |
| b)    | Discuss about JScroll Pane and JCombo Box.  | [4+6] |