

Code No: RT22052

R13**SET - 1****II B. Tech II Semester Supplementary Examinations, April/May - 2019****JAVA PROGRAMMING**

(Com. to CSE, IT)

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)2. Answer **ALL** the question in **Part-A**3. Answer any **THREE** Questions from **Part-B****PART -A**

1. a) What is inheritance? List different types of inheritance. (4M)
- b) Explain different ways to create object of a class in Java. (4M)
- c) How Java provides access protection? (4M)
- d) What is a daemon thread? (3M)
- e) What for repaint() method is used? (3M)
- f) List out the differences between AWT and Swings. (4M)

PART -B

2. a) Discuss on the advantages and disadvantages of Object Oriented Programming. (8M)
- b) Present the history of Java and elaborate on its features. (8M)
3. a) What is method binding? Explain with an example. (8M)
- b) Write a program that will compute the following series for a given n value: (8M)
$$1/1 + 1/2 + 1/2^2 + \dots + 1/2^n.$$
4. a) What are the different forms of inheritance? Explain with examples. (8M)
- b) What is an exception? Explain the class hierarchy of exceptions. (8M)
5. a) How inter thread communication is done in Java? Write a java program to create threads with different priorities. (8M)
- b) Why thread is called a light weight process? What are the different things shared by different threads of a single process? What are the benefits of this sharing? Mention any application for which multithreading is not desired. (8M)
6. a) Explain the delegation event model. (8M)
- b) Explain procedure to handle mouse events in Java with an example program. (8M)
7. Design a Java front end for a login page using swing components with the following layout managers: (16M)
a) Border layout b) Grid Layout