

Code No: **R163204A**

R16

SET - 1

III B. Tech II Semester Regular/Supplementary Examinations, August-2021
OOPS THROUGH JAVA

(Electronics and Communication Engineering)

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 **FOUR** Questions from **Part-B**

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**PART -A**

**(14 Marks)**

1. a) What is the size of character in Java? Justify your answer. [2M]
- b) Provide any two uses of this keyword. [2M]
- c) Write any two uses of super keyword. [2M]
- d) Give any two-character stream classes along with necessary methods in them. [3M]
- e) What is the use of Applet class? Write any two methods it defines. [3M]
- f) Can a TextField be made a Label in java.awt package? Justify your answer. [2M]

**PART -B**

**(56 Marks)**

2. a) What are variables? What are the different types of variables available in Java? Discuss the scope and life time of variables in detail. [7M]
- b) Explain Java program structure with a relevant example program. [7M]
3. a) How memory deallocation is done in Java? Explain in detail. [7M]
- b) Create a class named Student with rollno and name as attributes. Write the necessary constructors and methods to display student details. [7M]
4. a) Differentiate String and StringBuffer classes with necessary methods. [7M]
- b) Write a Java program that illustrates user defined exception. [7M]
5. a) What is a Thread? Explain different ways of creating threads with an example. [7M]
- b) Write a Java program to print contents of a file in command prompt along with line number for each line. [7M]
6. a) What is event handling? Give detailed explanation on event classes. [7M]
- b) Explain the use of WindowAdapter class with an example. [7M]
7. a) Which event gets generated when a button is clicked? Write any two constructors and three methods of Button class. [7M]
- b) Explain how to create menus with an example? [7M]

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