II B. Tech II Semester Supplementary Examinations, June/July - 2022 JAVA PROGRAMMING

SET - 1

(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 **FOUR** Questions from **Part-B** PART -A 1. a) What is dynamic binding? Discuss with an example JAVA code. (2M)b) Write JAVA code to define a class, define instance methods for setting and (3M)Retrieving values of instance variables and instantiate its object. c) What is the impact of declaring a method as final? (2M)d) Which class is used to read the contents of a file as a stream of bytes? Discuss (3M)with an example JAVA code. e) An applet can run multiple threads? Give the JAVA code. (2M)f) Describe the Flow Layout Manager with an example JAVA code. (2M)PART -B 2. a) Write a JAVA program which takes two integer numbers as input and returns (7M)the minimum of these two. b) How the JVM runs the java byte code? Discuss it with a diagram. (7M)Create a JAVA class that lets you create a single-dimensional array of integers (7M)at runtime using command line inputs. Print the Minimum and Maximum integers in that array. b) Create a JAVA class to read a string from the command line and extract 'n' (7M)number of characters from the given character.(Example:- Input String: PROGRAMMING, n is 4, a character is 'G', and output is: GRAM) 4. a) Discuss various subclasses of the Exception class. (6M)b) Design a JAVA package to show the dynamic polymorphism and interfaces. (8M)a) Write a JAVA program to show multithreaded producers and consumer 5. (7M)applications. b) Create a JAVA program that reads the contents of a file My_Text_File and (7M)reverses each word and writes it to destination fileMy_Text_File2 Describe various methods from KeyListener interface with an example JAVA 6. a) (7M)b) Design an Applet displaying circle based on the user inputs for the radius and (7M)fill the circle with the given color. 7. a) Design a JAVA program that creates a 7×3 grid and fills it in with 20 buttons, (7M)each button labeled with its index. b) What are the various constructors of a *TextArea* class? Explain with an example (7M)program. 1 of 1