

Code No: 156CC

R18

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, February/March - 2022

OBJECT ORIENTED PROGRAMMING THROUGH JAVA

(Common to ECE, EIE)

Time: 3 hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks

- 1.a) What is method overloading? Define two methods that have same name but different parameter types. Define two methods in class that have identical method names and parameter profile with different return value types or different modifier.
- b) What is an array? Write a program that creates and initializes a four integer elements array. Find the sum and average of its value. [8+7]
- 2.a) Write a program to find the inverse of a given matrix.
- b) What is constructor? Explain the types of constructors are used in Java. [6+9]
- 3.a) Explain the process of defining and creating a package with suitable examples.
- b) Define an interface in java. How are interfaces implemented? How they can be accessed? [8+7]
- 4.a) Explain the types of Access specifiers are used in Java and also illustrate with an example.
- b) What is the use of super and final? [7+8]
- 5.a) What is an Exception? List out the keywords for exception handling and write steps to develop user defined exception.
- b) Write a program that counts number of characters, words, and lines in a file. Use exceptions to check whether the file that is read exists or not. [7+8]
- 6.a) What is multithreading? What are the priorities given for multithreading? Explain advantages of multithreading.
- b) Describe the complete life cycle of a thread with an example. [8+7]
- 7.a) Write short notes on event, event source and event listeners.
- b) Explain about layout manager and different layouts and write an example program to demonstrate layouts. [7+8]
- 8.a) How to create an applet? Explain with an example.
- b) Explain MVC Architecture in detail. [8+7]

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