

R09

Code No: 56025

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, November/December - 2020

OBJECT ORIENTED PROGRAMMING

(Common to ECE, ETM)

Time: 2 hours

Max. Marks: 75

**Answer any five questions
All questions carry equal marks**

- 1.a) What is meant by data abstraction and encapsulation? Explain with examples.
- b) What are the primitive data types available in Java? Explain. [8+7]
- 2.a) Explain different types of constructors and their advantages.
- b) What do you mean by type conversion and type casting? Explain with examples. [7+8]
- 3.a) With an example code, explain how to create and access packages in JAVA.
- b) What is a package? What do you understand from CLASSPATH environment variables? [7+8]
- 4.a) Explain about compile time polymorphism with suitable example.
- b) When do we declare a method or class as final and abstract? Discuss. [8+7]
5. Discuss how exceptions are handled in Java? Give suitable examples. [15]
- 6.a) How do we set priorities for threads? Describe the complete life cycle of a thread.
- b) Write a program that creates two threads. First thread prints the numbers from 1 to 100 and the other thread prints the numbers from 100 to 1. [7+8]
- 7.a) Explain the different types of Layout managers with suitable examples.
- b) What is an AWT? What are the differences between component and container? [7+8]
8. Write short notes on the following:
 - a) Life cycle of an applet
 - b) MVC architecture. [7+8]

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