

**Code No: 154CY****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech II Year II Semester Examinations, February - 2024****OBJECT ORIENTED PROGRAMMING THROUGH JAVA****(Computer Science and Design)****Time: 3 Hours****Max. Marks: 75**

- Note:** i) Question paper consists of Part A, Part B.  
ii) Part A is compulsory, which carries 25 marks. In Part A, answer all questions.  
iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

**PART – A****(25 Marks)**

- 1.a) What do you mean by strongly typed language? [2]
- b) What is the need of oop paradigm? [3]
- c) What is base class? [2]
- d) How do you define an interface? [3]
- e) Define thread. [2]
- f) Describe briefly about exception Hierarchy. [3]
- g) What is an event listener? [2]
- h) Explain delegation event model. [3]
- i) What is an applet? [2]
- j) Describe about MVC architecture. [3]

**PART – B****(50 Marks)**

2. List and explain java buzzwords. [10]
- OR**
- 3.a) Explain about nested and inner classes.
  - b) What is “this” keyword used for? Illustrate with an example. [5+5]
4. What are different forms of inheritance? Explain with an examples. [10]
- OR**
- 5.a) What is the purpose of “super” keyword?
  - b) Illustrate how to create and import a package. [5+5]
6. What is exception handling? Discuss about various clauses used for exception handling in java. [10]
- OR**
- 7.a) What is autoboxing?
  - b) How thread groups are created in java? What are daemon threads? [5+5]
8. List and explain various layout managers. [10]

**OR**

9. Explain about check box, check box groups and choices components of AWT. [10]
  10. Write about life cycle of an applet. What are different types of applets? Explain. [10]
- OR**
11. Explain about JApplet, JFrame and JComponent classes. [10]

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