

**R18**

Code No: 154BE

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech II Year II Semester Examinations, September/October - 2023

**JAVA PROGRAMMING**

(Common to CSE, IT)

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) Which data types are supported by JAVA? [2]
- b) What is adhoc polymorphism? [3]
- c) What is byte stream? [2]
- d) What is autoboxing? [3]
- e) How do you create your own exception in java? [2]
- f) What are different types of exceptions? [3]
- g) What is array list? [2]
- h) What is significance of bit set? [3]
- i) What is anonymous inner class? [2]
- j) Explain MVC architecture. [3]

**PART – B**

**(50 Marks)**

- 2.a) List out the methods supported by object class and explain them.
- b) What is the significance of super keyword? [5+5]

**OR**

- 3.a) What is the importance of final keyword?
- b) What is constructor? When will it get executed? In what situations constructor is useful? [5+5]

4. How do you define and import a package? Explain with examples. [10]

**OR**

5. Write a java program to copy only character "a" from file A to file B. [10]

- 6.a) What is a thread? How do you create thread in java?
- b) List and explain some built-in exceptions. [5+5]

**OR**

- 7.a) How inter-thread communication is performed?
- b) Explain how to handle the exceptions in Java with an example. [5+5]

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- 8.a) What is tree set? Explain.
- b) What is significance of formatter class?

[5+5]

**OR**

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- 9.a) How do you create hashtable in java? Explain.
- b) What is an iterator? Explain with an example.

[5+5]

- 10.a) Explain how keyboard events are handled in java.
- b) Explain JText and JButton.

[5+5]

**OR**

- 11.a) What is adapter class? Explain.
- b) Explain JComboBox and JCheckBox.

[5+5]

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