

R18

Code No: 156CC

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, March - 2024

OBJECT ORIENTED PROGRAMMING THROUGH JAVA

(Common to ECE, EIE)

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 is the scope of an external variable? [2]
- b) What is a Parameterized Constructor? Give one example. [3]
- c) Differentiate between a Class and an Interface. [2]
- d) Write about access specifiers of a Package. [3]
- e) What are the differences between Multi-Threading and Multitasking? [2]
- f) Write any 3 String handling functions along with syntaxes. [3]
- g) Write about Dialog box in AWT. [2]
- h) Discuss about the usage of Adapter classes. [3]
- i) Write the advantages of Swings over AWT. [2]
- j) What is the need of MVC architecture? [3]

PART – B

(50 Marks)

- 2.a) What are Type conversion and Type casting? Explain.
- b) Write a Java code to find that the given number is perfect square or not. [4+6]

OR

- 3.a) Write are Java Buzzwords? Explain.
- b) Write a java code to print Fibonacci series. [4+6]

- 4.a) Write about Method Overriding? Give an example.
- b) What are Abstract classes? Explain in detail. [5+5]

OR

- 5.a) Explain Multi level inheritance with an example.
- b) Define Inheritance. Write the advantages of it. [5+5]

- 6.a) How do Try and Catch blocks handle exceptions in Java. Explain.
- b) Write a java code to accept input as age if it is less than 18 generate an arithmetic exception otherwise print "You are eligible for driving license"? [4+6]

OR

- 7.a) Discuss about Thread life cycle methods in detail.
- b) How the Thread's priorities are set in java? Explain. [5+5]

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- 8.a) Write about Events and Event Sources.
- b) Explain the steps in handling Mouse events handling. [5+5]

OR

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- 9.a) Discuss about Choices and List Panels AWT User Interface Components.
- b) Write about Border and Flow layouts in AWT. [5+5]

- 10.a) What is an Applet? How it is different from normal Application?
- b) Illustrate passing parameters to Apples using a sample program. [4+6]

OR

- 11. What are the containers in swing in Java? Explain any 5 of them. [10]

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