

Code: 19IT3405

II B.Tech - II Semester – Regular Examinations – AUGUST 2021

**PROGRAMMING WITH JAVA
(INFORMATION TECHNOLOGY)**

Duration: 3 hours

Max. Marks: 70

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- Note: 1. This question paper contains two Parts A and B.
2. Part-A contains 5 short answer questions. Each Question carries 2 Marks.
3. Part-B contains 5 essay questions with an internal choice from each unit. Each question carries 12 marks.
4. All parts of Question paper must be answered in one place
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PART – A

1. a) What are constructors? What are the points to remember while working with constructors?
- b) What are the rules for declaring an interface?
- c) What do you understand by the try and catch block?
- d) How to create a drop-down list in a frame window?
- e) Explain briefly JComboBox with syntax.

PART – B

UNIT – I

2. a) What is typecasting in java? Why is it required? 6 M
- b) What are the different types of comments that can be made in java? Why is main method termed public and static? 6 M

OR

3. a) What do you mean by scope and lifetime of a variable. 6 M
Depict using an example.
- b) Discuss with an example the process of garbage collection in java and when does an object become eligible for garbage collection diagrammatically. 6 M

UNIT – II

4. a) What is the role of Scanner class in Java programming? 6 M
Give suitable example.
- b) Explain about DataInputStream and 6 M
InputStreamReader.

OR

5. a) What are abstract classes? How do they differ from 6 M
concrete classes? Can an abstract class be instantiated?
Can there be an abstract constructor of a class? Explain
with suitable examples.
- b) Discuss how to define an interface by giving an 6 M
example for the same?

UNIT-III

6. a) Describe the various access protection levels available 6 M
for packages in java.
- b) How can we deal with multiple exceptions in java? 6 M

OR

7. a) Explain the usage of finally keyword. 6 M
- b) Do threads have priorities? How can thread priorities 6 M
affect the execution of a program?

UNIT – IV

8. a) What are adapter classes? How did they come into existence? Explain with a program. 6 M
- b) Write a program to show event handling for: 6 M
- (i) Lists
 - (ii) Menu bar
 - (iii) Checkboxes

OR

9. a) How do you create a horizontal scroll bar? What event can a scroll bar fire? 6 M
- b) Explain the importance of layout managers in java. How does a FlowLayout manager class differ from BorderLayout class? 6 M

UNIT – V

10. a) Specify the key features of Swings. 6 M
- b) Write a Java program using JLabel, JTextField and JButton. 6 M

OR

11. a) What is the significance of the applet tag? Describe some of the attributes of the applet tag. 6 M
- b) What are the differences between applications and applets? How do you run an application, and how do you run an applet? Is the compilation process different for applications and applets? List some security restrictions on applets. 6 M