

# CBCS SCHEME

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18EI/BM/ML63

## Sixth Semester B.E. Degree Examination, July/August 2022 Java Programming

Time: 3 hrs.

Max. Marks: 100

**Note:** Answer any FIVE full questions, choosing ONE full question from each module.

### Module-1

- 1 a. List and explain four most important basic concepts of Object – Oriented Programming. (10 Marks)  
b. Explain features of Java programming language. (10 Marks)

OR

- 2 a. Explain the general structure of a Java Program. (10 Marks)  
b. List and explain Java programming language tokens. (10 Marks)

### Module-2

- 3 a. List and explain different data types in Java along with memory space requirement (only primitive). (10 Marks)  
b. List and explain logical operators and bit – wise logical operators in Java. (10 Marks)

OR

- 4 a. List and explain various forms of if group of statements. (10 Marks)  
b. Explain the while statement with its syntax. Write a program to illustrate its features. (10 Marks)

### Module-3

- 5 a. Explain creation of a new class and its objects with the help of a program. (10 Marks)  
b. What is an Inheritance? Explain different forms of inheritance using neat class hierarchy diagrams. (10 Marks)

OR

- 6 a. Explain Declaration, Creation and Initialization of 1-D arrays in Java Programming Language. (10 Marks)  
b. What are the uses of String Buffer Class? Explain its four important methods. (10 Marks)

### Module-4

- 7 a. Explain various forms of interface implementation in Java Programming Language. (10 Marks)  
b. List and explain any four important Java API packages. (10 Marks)

OR

- 8 a. List and explain different ways of creating threads in Java Programming Language. (10 Marks)  
b. Explain the life cycle of a thread using state transition diagram. (10 Marks)

### Module-5

- 9 a. Explain the life cycle of an applet using state transition diagram. (10 Marks)  
b. Explain designing of a Web page using applets. (10 Marks)

OR

- 10 a. Explain the differences between local applets and remote applets, with neat diagram. (10 Marks)  
b. Explain how applets differ from applications. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.