

CBCS SCHEME

18CS653



Sixth Semester B.E. Degree Examination, Dec.2023/Jan.2024 Programming in Java

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Explain the primitive data types in Java. (10 Marks)
- b. What is an array? How single dimensional and multi dimensional arrays defined in Java with an example. (10 Marks)

OR

- 2 a. Explain scope and lifetime of variables with an example. (08 Marks)
- b. Explain Java class Libraries. (04 Marks)
- c. Explain the blocks of code. (08 Marks)

Module-2

- 3 a. Explain selection statements in Java with an example. (10 Marks)
- b. Explain jump statements in Java with an example. (10 Marks)

OR

- 4 a. Explain bitwise logical operators in Java with an example. (08 Marks)
- b. Explain ternary operator in Java with an example. (04 Marks)
- c. Explain switch statements in Java with an example. (08 Marks)

Module-3

- 5 a. Explain the use of static and final keywords in Java with an example. (10 Marks)
- b. Explain the process of creating multilevel hierarchy with an example program. (10 Marks)

OR

- 6 a. What is inheritance? Explain the types of inheritance with an example program. (08 Marks)
- b. Explain overloading the constructor with an example program. (08 Marks)
- c. Explain dynamic method dispatch in Java. (04 Marks)

Module-4

- 7 a. What is an exception? Describe the working of nested try block with an example. (08 Marks)
- b. Explain check and unchecked exceptions. (08 Marks)
- c. Explain chained exception with an example program. (04 Marks)

OR

- 8 a. Illustrate the following :
 - i) Access protection (10 Marks)
 - ii) Importing packages. (10 Marks)
- b. Explain throw, throws and finally keywords in Java with example program. (10 Marks)

Module-5

- 9 a. With examples, illustrate the following operations on strings :
- i) String comparison
 - ii) String search
 - iii) Modifying string
 - iv) Changing the case of characters. (10 Marks)
- b. Explain StringBuffer and StringBilder class in Java. (10 Marks)
- OR**
- 10 a. What is an applet? Explain the program in an applet with a skeleton code. (10 Marks)
- b. What is stream? Explain the types of stream along with their specific classes and methods. (10 Marks)

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