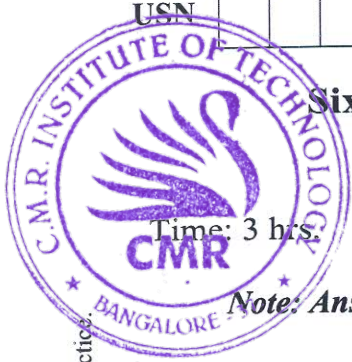


CBCS SCHEME

18CS653



USN

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Sixth Semester B.E. Degree Examination, Jan./Feb. 2023 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. What is Object Oriented Programming? What are three OOP principles? (07 Marks)
- b. Illustrate Lexical issues in Java with examples. (07 Marks)
- c. Explain the process of compiling and running Java application with the help of "Hello Java" program. (06 Marks)

OR

- 2 a. Explain Literals in java. (06 Marks)
- b. Explain automatic type promotion in expressions with example program. (10 Marks)
- c. Explain the data types in java with an example. (04 Marks)

Module-2

- 3 a. Explain arithmetic operators in java with example. (10 Marks)
- b. Explain bitwise shift operators in java with example. (10 Marks)

OR

- 4 a. Explain iteration statements in java with an example. (08 Marks)
- b. Explain operator precedence with an example. (06 Marks)
- c. Explain Ternary operator with an example. (06 Marks)

Module-3

- 5 a. Define constructor. What are the types of constructors in java with an example? (10 Marks)
- b. What is recursion? How to compute the factorial of a number using recursion? (10 Marks)

OR

- 6 a. Explain method overriding in java with an example program. (08 Marks)
- b. Explain the use of abstract class in java with an example. (06 Marks)
- c. With an example java program, explain the significance of super keyword. (06 Marks)

Module-4

- 7 a. Illustrate the various exception handling constraints in java with an example program. (08 Marks)
- b. Explain the nested interfaces in java. (04 Marks)
- c. Explain the use of import statement in package with an example program. (08 Marks)

OR

- 8 a. Explain the syntax of try and catch block to handle multiple exceptions. (10 Marks)
- b. Explain the visibility of variables with various types of access specifies using packages. (10 Marks)

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.

Module-5

- 9 a. Explain enumerations in java with an example. (10 Marks)
b. Illustrate type wrappers with an example. (10 Marks)

OR

- 10 a. Explain reading and writing files in java with an example. (10 Marks)
b. Illustrate the following keywords with example in java : (10 Marks)
- (i) Transient and Volatile
 - (ii) instanceof
 - (iii) assert
 - (iv) native
 - (v) charAt
