



# CBCS SCHEME

15CS561

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## Fifth Semester B.E. Degree Examination, Dec.2019/Jan.2020 Programming in Java

Time: 3 hrs.

Max. Marks: 80

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

### Module-1

- 1 a. What is object oriented programming? Explain three main principles of object oriented programming. (05 Marks)
- b. Discuss various Lexical issues in Java. (08 Marks)
- c. What is the importance of code blocks in Java? (03 Marks)

OR

- 2 a. Explain primitive types of Java. (06 Marks)
- b. Demonstrate how type casting can be done in Java with an example. (04 Marks)
- c. Explain how arrays can be used in Java. (06 Marks)

### Module-2

- 3 a. Explain Bitwise operators in Java with an example. (06 Marks)
- b. Explain how increment/decrement operators can be used in Java with an example. (06 Marks)
- c. Explain the use of ? : operator in Java with an example. (04 Marks)

OR

- 4 a. Explain selection statements in Java with an example. (10 Marks)
- b. Explain iterative statements in Java with an example. (06 Marks)

### Module-3

- 5 a. What is class? Explain classes and objects in Java with example. (06 Marks)
- b. What is constructor? Explain types of constructors in Java with an example. (06 Marks)
- c. Explain the use of 'this' keyword in Java. (04 Marks)

OR

- 6 a. What is method overloading? Explain with an example. (05 Marks)
- b. Demonstrate static members in Java. (06 Marks)
- c. Explain dynamic method dispatch in Java with an example. (05 Marks)

### Module-4

- 7 a. What is a package? Explain how packages can be used in Java. (06 Marks)
- b. What is interface? Discuss how interfaces are implemented in Java with an example. (08 Marks)
- c. List various exception handling mechanisms in Java. (02 Marks)

OR

- 8 a. Demonstrate try and catch in Java with an example. (06 Marks)
- b. Explain throw, throws in Java with an example. (06 Marks)
- c. How user defined exception sub classes are created in Java? Explain with an example. (04 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.

**Module-5**

- 9 a. Explain enumerations in Java with an example. (05 Marks)  
b. Demonstrate how to read console input in Java. (07 Marks)  
c. Explain transient and volatile modifiers in Java. (04 Marks)

OR

- 10 a. Explain how assets can be used in Java with an example. (06 Marks)  
b. Demonstrate how overloaded constructors can be involved using this(). (06 Marks)  
c. Explain how strings can be created in Java. (04 Marks)

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