



Semester MCA Degree Examination, Dec.2019/Jan.2020  
**Java Programming**

Max. Marks: 80

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

**Module-1**

- 1 a. Explain briefly the Object Oriented principles of Java. (08 Marks)
- b. Discuss the various primitive data types used in Java. (08 Marks)

OR

- 2 a. Explain the working of enhanced for loop with suitable example. (08 Marks)
- b. What is StringBuffer? What is its usage? Write suitable example. (08 Marks)

**Module-2**

- 3 a. Explain parameterized constructor with suitable example. (08 Marks)
- b. What is the difference between methods overloading and method overriding? Explain with proper example. (08 Marks)

OR

- 4 a. What are constructors? Explain constructor overloading with examples. (08 Marks)
- b. Explain the following with suitable example: i) Super ii) Final. (08 Marks)

**Module-3**

- 5 a. Explain different access specifiers used in Java with suitable example. (08 Marks)
- b. Write a Java program for the implementation of multiple inheritance using interfaces to calculate the area of a rectangle and triangle. (08 Marks)

OR

- 6 a. What is an exception? How exception can be handled in Java with example. (08 Marks)
- b. What are packages in Java? Why is it required to package Java program? Give example. (08 Marks)

**Module-4**

- 7 a. What is multi threading? Write a Java program to create multiple threads in Java by implementing Runnable interface. (08 Marks)
- b. What is enumeration? Explain values( ) and valuesOf( ) methods. (08 Marks)

OR

- 8 a. What is autoboxing? Illustrate with a programming example. (08 Marks)
- b. What is thread? Explain how to create threads in Java with an example. (08 Marks)

**Module-5**

- 9 a. What is an applet? Write a Java applet program which handles keyboard event. (08 Marks)
- b. Write a note on Swing Button. (08 Marks)

OR

- 10 a. With an example, explain the LinkedList collection classes. (08 Marks)
- b. Explain about URL connection class. (08 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.