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10MCA33

Third Semester MCA Degree Examination, Dec.2017/Jan.2018

Programming with Java

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Explain four important features of Java and general structure of Java program. (10 Marks)
b. Explain the following :
 - i) ? operator
 - ii) automatic type promotion
 - iii) JVM
 - iv) super keyword
 - v) this keyword. (10 Marks)
- 2 a. Explain different ways of accessing the variable in Java. (10 Marks)
b. Explain the concept of Nested classes and Inner classes with an example. (10 Marks)
- 3 a. Differentiate between abstract class and interface. (03 Marks)
b. Write a Java program to demonstrate dynamic method dispatch. (07 Marks)
c. Explain the following with the example :
 - i) Final class
 - ii) Final variable
 - iii) Final method. (10 Marks)
- 4 a. Define exception? Explain the concept of throw and throws with an example. (10 Marks)
b. Write a Java program to implement producer and consumer problem using threads. (10 Marks)
- 5 a. Explain life cycle of thread. Explain any five methods in a thread. (10 Marks)
b. What are stream classes? Explain any four methods in stream class. (10 Marks)
- 6 a. Explain the following:
 - b. Enumeration
 - c. Generic class
 - d. String comparison
 - Math class. (20 Marks)
- 7 a. Explain the concept of ArrayList class and HashSet class with an example. (10 Marks)
b. Define the following :
 - i) HTTP ii) URL iii) SOCKET iv) URI v) RMI. (10 Marks)
- 8 a. Define applet? Explain life cycle of an Applet. (06 Marks)
b. Explain event delegation model. (04 Marks)
c. Write a Java program which handles MOUSE Event and KeyBoard Event. (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.