CBCS Scheme

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16MCA32

Third Semester MCA Degree Examination, June/July 2018

JAVA Programming

Max. Marks: 80 Time: 3 hrs.

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

Module-1

- a. List and explain key attributes of object oriented principles in JAVA (08 Marks) 1 (08 Marks)
 - Explain string Buffer and String Builder.

- Write a JAVA program for matrix multiplication. (08 Marks)
 - With example explain: i) Methods ii) Constructors. (08 Marks)

Module-2

- What is inheritance? With example list the types of inheritance supported in JAVA.
 - (08 Marks)
 - (08 Marks) ii) Abstract classes. Write notes on: i) Polymorphism

OR

- Explain method overloading and constructor overloading with suitable example. (08 Marks)
 - What are super class constructors? How does super class members are used in JAVA? (08 Marks)

Module-3

- What is interface? How does JAVA support multiple interfaces? Explain with example.
 - (10 Marks)
 - What are exceptions? Explain exception handling mechanism with example. (06 Marks)

- Define package. Explain how packages are created in Java. Explain with syntax. (08 Marks)
 - (08 Marks) Briefly explain built-in exceptions in JAVA.

Module-4

- What is multi threading? Explain the benefits of multi threaded program. (10 Marks)
 - (06 Marks) Explain: i) values() ii) valueof()

OR

- Explain the following:
 - ii) notifyall() iii) wait() (09 Marks) i) notify() (07 Marks)
 - b. Explain autoboxing and autounboxing with example.

Module-5

- a. What are URL classes? Explain URL connections with syntaxes. (08 Marks)
 - How does parameters passed in applets? Explain with example.

- OR What are applets? Explain complete skeleton of applet.
 - (08 Marks)
 - Write notes on: (i) InetAddress class, ii) Socket class.

(08 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.