Fourth Semester MCA Degree Examination, June/July 2019 Advanced Java Programming

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- Explain the importance of classes and packages used in each step of creation of servlet with code example. (10 Marks) Explain four different ways in which a session can be tracked with suitable examples. b. (10 Marks) Explain different ways in which you can invoke java code from jsp. (10 Marks) 2 Explain five different kinds of main tags used in jsp. Explain with code example. (10 Marks) Explain important action tags needed while bringing in a java bean into jsp and using it. Write a program to create a jsp page that accepts name and roll number and stores in bean and finally displays in jsp. (10 Marks) Explain different built-in annotations and its uses. (10 Marks)
 - 5 a. What is a java bean? Explain its advantages. (10 Marks)
 - b. Write a note on atleast five each interfaces and classes in java bean API package. (10 Marks)
 - 6 a. Explain important steps needed to create database connection using JDBC process data in detail. (10 Marks)
 - b. Explain different basic and advanced JDBC data types using code example. (10 Marks)
 - 7 a. What are the main important features that a good software should possess. Explain in detail. (10 Marks)
 - b. Explain in detail, the three ways in which a given responsibility can be broken down.
 (10 Marks)
 - 8 Write a short note on different server side components:

Explain at least eight core java API packages and its uses.

- a. Stateless session bean
- b. Stateful session bean
- c. Singleton session bean
- d. Message driven bean.

(20 Marks)

(10 Marks)

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Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.