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BANGALORE - 560 037

13MCA42

Fourth Semester MCA Degree Examination, June/July 2018

Advanced Java Programming

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1
 - a. Define servlet. Discuss the life cycle of servlet with appropriate method implementations. (06 Marks)
 - b. Explain about HTTP Request headers. (06 Marks)
 - c. What are the methods available to handle the form data? Write a servlet program to create a dynamic page using form data. (08 Marks)
- 2
 - a. What is cookie? How to send and receive the cookies? Write a servlet program to keep track the user session using cookies. (10 Marks)
 - b. What is JSP? Explain the advantages of JSP over servlets. (04 Marks)
 - c. Explain about JSP expressions and JSP declarations with syntax and examples. (06 Marks)
- 3
 - a. Explain about any 6 attributes of page directives. (06 Marks)
 - b. Explain the following JSP action tags
 - i) <jsp : include >
 - ii) <jsp : forward>
 - iii) <jsp : plugin>. (06 Marks)
 - c. Write a JSP program to get student information through HTML and create Java bean class, populate bean and display the same information through another JSP. (08 Marks)
- 4
 - a. What is annotation? Explain the built-in annotations of Java. (10 Marks)
 - b. What is Java bean? Explain about simple and indexed properties of Java bean. (10 Marks)
- 5
 - a. Explain the steps in writing JDBC program with sample code. (08 Marks)
 - b. Explain about prepared statement. (04 Marks)
 - c. Explain the following with code snippet : i) Scrollable Resultset ii) Updatable Resultset. (08 Marks)
- 6
 - a. Explain about the services provided by the container. (10 Marks)
 - b. Discuss the life cycle of Message Driven Bean. (05 Marks)
 - c. What is JMS? Discuss about JMS messaging models. (05 Marks)
- 7
 - a. What is stateful session bean? Explain about the life cycle of stateful session bean. (08 Marks)
 - b. Define the terms persistence, entity, entity bean and Entity Manager. Write an employee entity bean class which contains employee id and name. (12 Marks)
- 8

Write a short note on the following :

 - a. Advanced JDBC datatypes
 - b. JSP implicit objects
 - c. Status codes
 - d. Jar files. (20 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.