

USN

--	--	--	--	--	--	--	--	--	--

13MCA42

Fourth Semester MCA Degree Examination, June/July 2017
Advanced Java Programming

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1
 - a. List out differences between GET method and POST method with respect to servlets. (03 Marks)
 - b. Explain the complete structure of servlet life cycle. (07 Marks)
 - c. Narrate the major range of http status codes along with their purpose. (05 Marks)
 - d. Write a java servlet program to demonstrate auto web page refresh by displaying current date and time. (05 Marks)
- 2
 - a. What are the need, benefits and advantages of JSP? (06 Marks)
 - b. With an example, describe the various tags available in JSP. (08 Marks)
 - c. Write a JSP program to include an applet along with necessary applet code. (06 Marks)
- 3
 - a. Explain the following page directive attributes along with an example program:
 - (i) Import
 - (ii) errorPage and isErrorPage
 - (iii) ContentType
 - (iv) buffer and autoflush (10 Marks)
 - b. Write a JSP program to read data from a HTML form (Gender data from radio buttons and colours data from check boxes) and display. (10 Marks)
- 4
 - a. What is a package? With an example, explain usage of sub packages. (06 Marks)
 - b. Differentiate an interface with an abstract class. (06 Marks)
 - c. How are jar files created and used? Explain its advantages. (08 Marks)
- 5
 - a. Discuss built-in annotations with an example program. (09 Marks)
 - b. What is a manifest file? Mention its importance (04 Marks)
 - c. Write a Java JSP program to create Java bean from a HTML form data and display it, in a JSP page. (07 Marks)
- 6
 - a. With an example program, describe the steps involved in connecting a Java program to a database. Perform insert, delete and select operations. (10 Marks)
 - b. What are prepared statement object and callable statement object? When do we use them? Explain with an example code. (10 Marks)
- 7
 - a. List the differences between stateless session bean and stateful session bean. (06 Marks)
 - b. Explain any four annotations used in EJB along with their meaning. (04 Marks)
 - c. Demonstrate a program to implement an Entity bean. (10 Marks)
- 8

Write a short notes on:

 - a. Single thread model interface.
 - b. Architecture of JSP.
 - c. getName () and getValue ().
 - d. @Documented and @Target annotations. (20 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.