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13MCA42

Fourth Semester MCA Degree Examination, June/July 2016 **Advanced Java Programming**

Tir	ne:	3 hrs. Max. M	1arks:100
		Note: Answer any FIVE full questions.	
1	a.	Define servlet. Explain the basic servlet structure and its life cycle methods.	(10 Marks)
	b.	Briefly explain the different HTTP 1.1 request headers.	(10 Marks)
2	a.	List and explain any ten HTTP 1.1 status codes.	(10 Marks)
	b.	With the help of an example, explain how to use cookies to remember user prefer	ences.
			(10 Marks)
3		Write a brief note on the following:	
	a.	JSP expressions.	
	b.	JSP scriptlets.	
	c.	JSP declarations.	
	d.	JSP directives.	(20 Marks)
4	a.	Write a JSP program to generate ten random numbers within one hundred.	(10 Marks)
•	b.	With an example, explain the "import attribute" and the "session attribute".	(10 Marks)
5	a.	Define java bean and state its advantages. Explain the features of java bean.	(10 Marks)
	b.	Explain how to add color property to simple bean, with an example.	(10 Marks)
6	a.	Witht the help of an example program, explain how to obtain a connection to	the database
U	Li.	using JDBC.	(10 Marks)
	b.	Briefly explain the different basic JDBC data types.	(10 Marks)
7	a.	Write a brief note on the following:	

- - i) Session beans.

ii) Entity beans.

(10 Marks)

b. With the help of a neat block diagram, explain the life cycle of a stateless session bean.

(10 Marks)

- Write a brief note on the following:
 - Instance pooling / caching.
 - Transactions.
 - Security.

Timers.

(20 Marks)