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

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