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## Fourth Semester MCA Degree Examination, Dec.2016/Jan.2017 **Advanced Java Programming**

Time: 3 hrs.

Max. Marks:100

Note: Answer	any	FIVE.	full	questions.
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alpractice.	1	a. b. c.	Explain the structure of a servlet program with a servlet template.  List and explain the methods involved in the servlet life cycle.  Write a servlet program which depends to the first service of the servlet life cycle.	(08 Marks) (06 Marks)				
ted as m		C.	Write a servlet program which demonstrates the usage of the get parameter () men	thod. (06 Marks)				
s. trea	2	a.	List and explain any six methods of HttpServlet Request class.	(06 Marks)				
nk pages), will be		b. c.	Explain the steps in detail involved in sending the cookies to the client. Write a servlet program to check whether the session is new or old.	(09 Marks) (05 Marks)				
ing bla +8 = 50	3	a.	What is the need for JSP, benefit and advantages of JSP over competing technolog					
remain		b.	Explain the different types of JSP tags with an example for each.	(10 Marks) (10 Marks)				
on the writter	4	a.	List all the attributes of page directive tag and explain any five with an example for					
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.		b.	Write a JSP program which displays an applet with the help of <jsp:plogin>tag.</jsp:plogin>	(10 Marks) (10 Marks)				
	5	a.	John John Dean Elst out the day					
liago and		b.	Java Bean. What are the different categories of JDBC drivers?	(10 Marks)				
aw d		c.	What are basic steps that need to be followed while writing an application that	(06 Marks)				
orily dra to evalu	1		API?	(04 Marks)				
appeal	6	a. b.	Explain Prepared statement object with an example java program.  What is the advantage of using add Batch ( ) and execute Batch ( ) methods in JDH	(10 Marks)				
s, co				(06 Marks)				
your answer of identificati		c.	Explain the following advanced JDBC data type: BLOB, CLOB.	(04 Marks)				
	7	a.	a. Explain transactions, security and Timer specification of container services in EJ					
rpleting ealing		b.	With a neat diagram, explain the states of life cycle of a stateless session Bean.	(10 Marks) (10 Marks)				
con rev	8		Write short notes on:					
On Any		a.	Creating a jar file	(05 Marks)				
.1.		b.	Scrollable Result set	(05 Marks)				
lote		c.	Message Driven Bean	(05 Marks)				
nt N		d.	Dependency Injection.	(05 Marks)				
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