

## MCA (Revised)

## Term-End Examination

June, 2008

## MCS-051 : ADVANCED INTERNET TECHNOLOGIES

Time : 3 hours Maximum Marks: 100 Note: Question number 1 is compulsory. Attempt any three questions from the rest. 1. (a) How does Session Bean differ from the Entity Bean in terms of object sharing, object state and failure recovery? 6 Differentiate between validating and non-validating parser. 4 Explain different types of system vulnerabilities. (c) 6 (d) Assume that there is a table named as PRODUCT in MS-Access with the following fields (PROD\_ID, PROD\_NAME, PRICE, VENDOR\_NAME). Write a Java program to insert and then display the records of this table using JDBC. 10 (e) Explain the different development goals of XML document. 4 What is a well formed tag? Name two HTML tags (f) 5 that are not well formed. Write an XML DTD to represent the grade card of (g)



		an IGNOU student which contains	5
		(i) Name - Last, Middle and First	
		(ii) Subjects - Five subjects	
		(iii) Assignment marks	
		(iv) Total marks	
		(v) Result (pass/fail)	
2.	(a)	Explain different circumstances under which message-driven bean can be used.	4
	(b)	Explain six different types of services offered by EJB container.	6
	(c)	Explain the life cycle of Servlet. Write a code for demo Servlet to explain all the three stages of	
		Servlet life cycle.	10
3.	(a)	Explain all five basic types of implicit objects of JSP with syntax.	10
	(b)	Explain different types of restrictions on EJB.	5
	(c)	What are the advantages of XML over HTML?	5
4.	(a)	Explain the need/use of entities of XML document.  Describe all three types of entities with the help of	
			10
	<b>(b)</b>	Explain the differences between session and cookie.	4
	(c)	Explain three different types of JDBC SQL statements.	6



4



5.	(a)	Briefly explain the advantages/disadvantages of different types of drivers of JDBC.	8
	(b)	Explain four basic mechanisms through which a web client can authenticate a user to a web server during HTTP Authentication.	8
	(c)	Explain briefly the functionality provided by the	

home and remote interfaces of an EJB.

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