MCA (Revised)

Term-End Examination June, 2022

MCS-051: ADVANCED INTERNET TECHNOLOGIES

Time: 3 hours Maximum Marks: 100

Note: Question no. 1 is compulsory. Attempt any three questions from the rest.

1. (a) What is session tracking? Write a servlet program using session tracking to display the number of visitors of a web page. The web page should display your name and current date on the top and the number of visits at the bottom.

10

(b) Write a JSP program to take date of birth as input and display age of the person.

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(c) Explain the use of request object and session object of JSP.

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(d) Why is JavaBean used? Briefly explain the following categories of bean properties:

5

- (i) Index Property
- (ii) Bound Property

	(e)	What is a session bean? Briefly explain the lifecycle of stateless-session bean with the help of a diagram.	5
	(f)	Explain HTTP basic authentication with the help of an example program.	10
2.	(a)	What is JDBC? What are the different types of JDBC drivers? Briefly explain the advantages of JDBC.	10
	(b)	What is the use of JSP in Internet programming? Briefly explain scripting elements of JSP with the help of an example program.	10
3.	(a)	Describe the use of the following implicit objects of JSP, with the help of an example code:	10
		(i) The out object	
		(ii) The pageContext object	
		(iii) The config object	
		(iv) The page object	
		(v) The exception object	
	(b)	What is XML? Compare XML with HTML.	5
	(c)	Explain external entity and internal entity of XML, with the help of an example of each.	5
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4.	(a)	What is message-driven bean ? Briefly explain its uses.	5
	(b)	Explain the different types of restrictions of EJB.	5
	(c)	What is SSL authentication? Briefly explain SSL client application components.	10
5.	(a)	What are different web security objects? Explain web security object dependencies with the help of a diagram.	10
	(b)	Explain with the help of a code, how records are inserted in database using JSP.	5
	(c)	What is a Cookie? Explain setMaxAge and getDomain method of Cookie class.	5