MASTER OF COMPUTER APPLICATIONS (MCA) (REVISED)

Term-End Examination

June, 2025

MCS-051 : ADVANCED INTERNET TECHNOLOGIES

Time: 3 Hours Maximum Marks: 100

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

- (a) What is servlet ? Explain the use of doGet() and doPost() methods. Also write a servlet program to display "Welcome to MCA".
 - (b) What is JDBC-API? Explain the use of different types of JDBC SQL statements with the help of examples.

10

	(C)	what is AME ! Compare AME with
		HTML. 5
	(d)	Explain JNDI authentication with the
		help of an example.
	(e)	Explain any two system recovery
		procedures. 5
	(f)	Explain JSP scriptlets and expressions
		with examples.
2.	(a)	Create a database of Account holders of
		a Bank. Write a program using JSP and
		JDBC to display details of the account
		holders including the type of account
		they have in the Bank.
	(b)	What is SSL authentication? Explain
		SSL encryption and SSL handshake in
		detail. 10
3.	(a)	Explain why we need different types of
		JDBC drivers. Briefly explain different
		types of JDBC drivers.

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(b)	What is the need of session tracking in
	web applications? Briefly explain any
	two mechanisms of session tracking in
	servelet. 10

- 4. (a) What is EJB ? Explain any *three* advantages of EJB.
 - (b) Write a scriptlet in JSP to print the current date and time.
 - (c) Explain servelet chaining and its advantages.
- 5. (a) Differentiate between the following:

 $2 \times 5 = 10$

- (i) Session bean and Entity bean
- (ii) Authentication and Authorization
- (b) Write short notes on the following:

 $2 \times 5 = 10$

- (i) XML document
- (ii) Integrating servelet and JSP

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