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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

MCA (Integrated)

SEM: V - THEORY EXAMINATION (2024 - 2025)

Subject: Web Technology

Time: 3 Hours

Max. Marks: 100

General Instructions:*IMP: Verify that you have received the question paper with the correct course, code, branch etc.**1. This Question paper comprises of three Sections -A, B, & C. It consists of Multiple Choice Questions (MCQ's) & Subjective type questions.**2. Maximum marks for each question are indicated on right -hand side of each question.**3. Illustrate your answers with neat sketches wherever necessary.**4. Assume suitable data if necessary.**5. Preferably, write the answers in sequential order.**6. No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.***SECTION-A**

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1. Attempt all parts:-

- 1-a. The ____ passes the information given by the user to a specified program. CO1, K1 1
- (a) User
- (b) Programmer
- (c) Web server
- (d) Browser
- 1-b. The HTML and HTTP standard are defined by ____ CO1, K1 1
- (a) Web client
- (b) Internet association
- (c) WWW consortium
- (d) WWW
- 1-c. The tags in HTML are - CO2, K1 1
- (a) case-sensitive
- (b) in upper case
- (c) not case sensitive
- (d) in lowercase
- 1-d. The property in CSS used to change the background color of an element is - CO2, K2 1
- (a) bgcolor

- (b) color
 - (c) background-color
 - (d) All of the above
- 1-e. A JavaScript program developed on a Unix Machine _____ CO3, K1 1
- (a) will throw errors and exceptions
 - (b) must be restricted to a Unix Machine only
 - (c) will work perfectly well on a Windows Machine
 - (d) will be displayed as a JavaScript text on the browser
- 1-f. The JavaScript classes can be instantiated using _____ operator. CO3, K1 1
- (a) create
 - (b) new
 - (c) instantiate
 - (d) create.new
- 1-g. What does JDBC stand for? CO4, K1 1
- (a) Java DataBase Connection
 - (b) Java Database Connector
 - (c) Java DataBase Connectivity
 - (d) Java Database Communication
- 1-h. Which method is used to establish a connection to a database? CO4, K1 1
- (a) DriverManager.openConnection()
 - (b) DriverManager.connect()
 - (c) DriverManager.getConnection()
 - (d) Connection.open()
- 1-i. In which process, a local variable has the same name as one of the instance variables? CO5, K1 1
- (a) Serialization
 - (b) Variable Shadowing
 - (c) Abstraction
 - (d) Multi-threading
- 1-j. What is meant by the classes and objects that depends on each other? CO5, K1 1
- (a) Tight Coupling
 - (b) Cohesion
 - (c) Loose Coupling
 - (d) None of the above

2. Attempt all parts:-

- 2.a. Define Web protocol. CO1, K2 2
- 2.b. Define world wide web? Explain its features. CO2, K2 2

2.c.	Define JavaScript Data Types? CO3, K2	2
2.d.	Explain the different types of JDBC drivers? CO4, K3	2
2.e.	Discuss how can you forward a request from one servlet to another. CO5, K2	2

SECTION-B

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3. Answer any five of the following:-

3-a.	Differentiate between HTML elements and HTML tags? CO1, K4	6
3-b.	Discuss about the history of Internet? CO1, K2	6
3-c.	Explain the structure of the HTML webpage. CO2, K2	6
3-d.	Define why Meta tags are used in HTML? CO2, K2	6
3.e.	Explain how do you add JavaScript to an HTML document? CO3, K4	6
3.f.	Discuss the differences between CHAR and VARCHAR data types? CO4, K4	6
3.g.	Define the HTTP Response? CO5, K2	6

SECTION-C

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4. Answer any one of the following:-

4-a.	Define a CSS file and why is it used? CO1, K2	10
4-b.	Discuss the difference between a static web page and a dynamic web page? CO1, K2	10

5. Answer any one of the following:-

5-a.	Define how do you create text on a webpage that will allow you to send an email when clicked? CO2, K4	10
5-b.	Discuss why the external style sheet useful? CO2, K2	10

6. Answer any one of the following:-

6-a.	Demonstrate the ways to define a variable in JavaScript. CO3, K3	10
6-b.	Demonstrate why JavaScript is called as a loosely typed or a dynamic language? CO3, K3	10

7. Answer any one of the following:-

7-a.	Discuss how can you retrieve a particular number of records from a table? CO4, K2	10
7-b.	Describe MySQL transaction properties. CO4, K2	10

8. Answer any one of the following:-

8-a.	Explain the Attributes of JSP page directive. CO5, K2	10
8-b.	Explain the Methods of ServletConfig interface. CO5, K2	10