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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 (2025 - 2026)

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

20

1. Attempt all parts:-

- 1-a. SEO expands to: (CO1, K1) 1
- (a) Search Engine Optimization
- (b) System Engine Output
- (c) Server Error Operation
- (d) Selective Engine Option
- 1-b. A dynamic webpage is generated by: (CO1, K1) 1
- (a) Hardware
- (b) Server programming
- (c) Paper files
- (d) Keyboard input
- 1-c. Identify the HTML tag used to display text with scrolling effect. (CO2, K1) 1
- (a) marquee
- (b) scroll
- (c) div
- (d) None of the above
- 1-d. Select the CSS property used to control font size. (CO2, K3) 1
- (a) text-style
- (b) text-size
- (c) font-size
- (d) None of the above
- 1-e. JavaScript displays _____ for an indefinite or infinite value during arithmetic 1

- computation. (CO3, K1)
- (a) Prints an exception error
 - (b) Prints an overflow error
 - (c) Displays “Infinity”
 - (d) Prints the value as such
- 1-f. Refreshing a webpage in JavaScript is done by using _____. (CO3, K1) 1
- (a) window.reload
 - (b) location.reload
 - (c) window.refresh
 - (d) page.refresh
- 1-g. Select the SQL statement used to create a table.(CO4,K1) 1
- (a) CREATE TABLE table_name (column_name column_type);
 - (b) CREATE table_name (column_type column_name);
 - (c) CREATE table_name (column_name column_type);
 - (d) CREATE TABLE table_name (column_type column_name);
- 1-h. Identify the feature not supported by MySQL.(CO4,K2) 1
- (a) Temporary (Hash) Tables
 - (b) Table Joining
 - (c) Stored Procedures
 - (d) Regular Expression Matching
- 1-i. Default session timeout unit (CO5, K1) 1
- (a) Minutes
 - (b) Seconds
 - (c) Hours
 - (d) Days
- 1-j. Example of JSP scripting element (CO5, K1) 1
- (a) <% %>
 - (b) @@@
 - (c) {{ }}
 - (d) { }

2. Attempt all parts:-

- 2.a. State the meaning of UI design in interface development. (CO1, K1) 2
- 2.b. Discuss Uniform Resource Locator. (CO2, K3) 2
- 2.c. Describe global variables and explain how they are declared.(CO3,K3) 2
- 2.d. Mention two advantages of using PreparedStatement.(CO4,K2) 2
- 2.e. Define the role of Page Directive in JSP.(CO5,K2) 2

SECTION-B

30

3. Attempt all parts:-

3.a. Answer any one of the following:-

- 3.a.(i) Classification of different types of websites based on purpose and content. (CO1, 6

- K3)
- 3.a.(ii) Comparison of static and dynamic websites based on structure and performance. (CO1, K3) 6
- 3.b. Answer any one of the following:-
- 3.b.(i) Explain the structure of an HTML webpage. (CO2, K3) 6
- 3.b.(ii) Define types of headings in HTML. (CO2, K2) 6
- 3.c. Answer any one of the following:-
- 3.c.(i) Define the important properties of an anonymous function in JavaScript.(CO3,K2) 6
- 3.c.(ii) Explain how to add JavaScript to an HTML document.(CO3,K2) 6
- 3.d. Answer any one of the following:-
- 3.d.(i) Explain how to import tables from a SQL file using MySQL client.(CO4, K3) 6
- 3.d.(ii) Define the difference between Primary Key and Unique Key.(CO4, K4) 6
- 3.e. Answer any one of the following:-
- 3.e.(i) Explain cookies and their working process in web applications.(CO5,K3) 6
- 3.e.(ii) Explain the difference between stateful and stateless interactions in Servlets.(CO5,K4) 6

SECTION-C

50

4. Answer any one of the following:-
- 4-a. Analyze how different web protocols (HTTP, HTTPS, FTP) govern the functioning of the web.(CO1, K4) 10
- 4-b. Evaluate how Web 2.0 technologies transformed traditional static websites into interactive platforms.(CO1, K5) 10
5. Answer any one of the following:-
- 5-a. Describe HTML tag used to display data in tabular form. (CO2, K2) 10
- 5-b. Describe difference between HTML elements and tags. (CO2, K4) 10
6. Answer any one of the following:-
- 6-a. Define the types of errors in JavaScript.(CO3, K2) 10
- 6-b. Define how to calculate the Fibonacci series in JavaScript.(CO3,K4) 10
7. Answer any one of the following:-
- 7-a. Explain ACID properties in databases.(CO4,K3) 10
- 7-b. Explain the use of Aggregate Functions in MySQL (SUM, AVG, COUNT, MAX, MIN). Discuss how GROUP BY and HAVING clauses work, and write SQL queries demonstrating their usage with appropriate examples.(CO4, K3) 10
8. Answer any one of the following:-
- 8-a. Describe HTTP request-handling process using doGet() and doPost().(CO5,K3) 10
- 8-b. Explain JSP implicit objects and their significance. (CO5, K3) 10