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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 - 2024)
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.   Which language is used for creating Web Pages?   CO1, K1   1

(a)   PASCAL

(b)   C

(c)   HTML

(d)   BASIC

1-b.   Which program is used by web clients to view the web pages?   CO1, K1   1

(a)   Web browser

(b)   Protocol

(c)   Web server

(d)   Search Engine

1-c.   The CSS property used to control the element's font-size is -   CO2, K1   1

(a)   text-style

(b)   text-size

(c)   font-size

(d)   None of the above

1-d.   The "function" and " var" are known as: CO2, K1   1

(a)   Keywords

(b)   Data types

(c)   Declaration statements

(d)   Prototypes

1-e.   The function definitions in JavaScript begins with _____   CO3, K1   1

(a)   Identifier and Parentheses

(b)   Return type and Identifier

(c)   Return type, Function keyword, Identifier and Parentheses

(d)   Identifier and Return type

1-f.   What can be done in order to avoid the creation of global variables in JavaScript?   1
CO3, K1

(a)   To use a method that defines all the variables

(b)   To use an object that has the reference to all the variables

(c)   To use an object as its namespace

(d)   To use global functions

1-g.   Which one of the following statements is used to create a table? CO3, 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.   Which of the following methods is used to execute the statement after the   1
parameters have been bound?   CO4, K1

(a)   bind_param()

(b)   bind_result()

(c)   bound_param()

(d)   bound_result()

1-i.   Dynamic interception of requests and responses to transform the information   1
done? CO5, K1

(a)   servlet container

(b)   servlet config

(c)   servlet context

(d)   servlet filter

1-j.   An interface with no fields or methods is known as a _____.   CO5, K1   1

(a)   Runnable Interface

(b)   Marker Interface

(c)   Abstract Interface

(d)   CharSequence Interface

2. Attempt all parts:-

2.a.   Describe what do you mean by Responsive design on a web page?   CO1, K2   2

2.b.   Discuss ISP? What are the major services provided by an ISP?   CO2, K2   2

2.c.   Describe global variables? How are these variable declared?   CO3, K3   2

2.d.	Define JavaBean? CO4, K2	2
2.e.	Explain the JSP directives. CO5, K2	2

SECTION-B 30

3. Answer any <u>five</u> of the following:-

3-a.	Discuss about the history of Internet? CO1, K2	6
3-b.	Define a responsive web page design? CO1, K2	6
3-c.	Define why Meta tags are used in HTML? CO2, K2	6
3-d.	Define forms in HTML. CO2, K2	6
3.e.	Define JavaScript objects? How are they different from arrays? CO3, K2	6
3.f.	Explain the differences between a primary key and a foreign key? CO4, K4	6
3.g.	Explain What are 400 Bad Request response codes in HTTP? CO5, K2	6

SECTION-C 50

4. Answer any <u>one</u> of the following:-

4-a.	Explain different types of about web protocols. CO1, K3	10
4-b.	Explain HTTP protocol also discuss about web browser and web server. CO1, K3	10

5. Answer any <u>one</u> of the following:-

5-a.	Describe how many types of heading does an HTML contain? CO2, K3	10
5-b.	Describe how to create a nested webpage in HTML? CO2, K4	10

6. Answer any <u>one</u> of the following:-

6-a.	Demonstrate the ways to define a variable in JavaScript. CO3, K3	10
6-b.	Explain in how many ways can you create an array in JS. CO3, K4	10

7. Answer any <u>one</u> of the following:-

7-a.	Describe MySQL transaction properties. CO4, K2	10
7-b.	Explain the difference between primary and foreign key? CO4, K4	10

8. Answer any <u>one</u> of the following:-

8-a.	Explain the Commonly used methods of ServletContext interface. CO5, K2	10
8-b.	Discuss the Cookie Class Constructor and Methods in Java Servlet CO5, K2	10