NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

B.Tech.

SEM: V - THEORY EXAMINATION (2022 - 2023)

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.   To make your website mobile friendly, you can make your website [CO1]   1

               (a) Reactive

               (b) Fast Loading

               (c) Light

               (d) Responsive

1-b.   The protocol involved in naming translations is [CO1]   1

               (a) DNS

               (b) IP

               (c) HTTP

               (d) FTP

1-c.   HTML tags are enclosed in- [CO2]   1

               (a) # and #

               (b) { and }

               (c) ! and ?

(d) < and >

1-d. DOM stands for? [CO2]   1

      (a) Direct Object Model

      (b) Document Object Modeling

      (c) Document Object Model

      (d) Document Output Model

1-e. The correct Syntax for importing a stylesheet in CSS? [CO3]   1

      (a) @import url(css/example.css);

      (b) @import-stylesheet url(css/example.css);

      (c) import-css url(css/example.css);

      (d) @import-style url(css/example.css);

1-f. Bootstrap does not use _____ [CO3]   1

      (a) HTML

      (b) jQuery

      (c) PHP

      (d) CSS

1-g. What will be the output of the following JavaScript code? string a = "hi";   1
string b ="there";
alert[a+b]; [CO4]

      (a) hi there

      (b) hithere

      (c) hi+there

      (d) error

1-h. The main difference between var and let keywords in JavaScript is: [CO4]   1

      (a) var defines a variable while let defines a constant

      (b) var defined function scoped variable while let define block scoped variable

      (c) The value of a variable declared with var can be changed while the value of a variable declared with let cannot be changed

      (d) None of the above

1-i. The use of fopen[] function in PHP is: [CO5]   1

      (a) The fopen() function is used to open folders in PHP

      (b) The fopen() function is used to open remote server

(c) The fopen() function is used to open files in PHP

(d) None of the above

1-j.   Which function returns an array consisting of associative key/value pairs? [CO5]   1

        (a) count()

        (b) array_count()

        (c) array_count_values()

        (d) count_values()

2. Attempt all parts:-

2.a.   Discuss the term hypertext with examples. [CO1]   2

2.b.   Differentiate between XMLand HTML. [CO2]   2

2.c.   Define Bootstrap Container, and how does it work?[CO3]   2

2.d.   Discuss various types of errors in JavaScript. [CO4]   2

2.e.   Explain the rules for naming a PHP variable. [CO5]   2

<div align="center">SECTION B</div>   30

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

3-a.   Differentiate between Statics & Dynamic web pages with examples. [CO1]   6

3-b.   Elaborate the planning phase charecteristics of a web development project. [CO1]   6

3-c.   Create HTML form for Registration of a student in college?[CO2]   6

3-d.   Define XML schema . Design a XML schema with its complex type and global types. [CO2]   6

3.e.   Differentiate between Inline, Internal and External CSS.[CO3]   6

3.f.   Explain the purpose of using JavaScript. How will a user interact with the system using java   6
          script. [CO4]

3.g.   Explain about PHP multidiemnsional array with example? [CO5]   6

<div align="center">SECTION C</div>   50

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

4-a.   Write a detailed note on responsive design of websites with suitable examples. [CO1]   10

4-b.   How Client-Server Communication takes place? Discuss in detail. [CO1]   10

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

5-a.   Enumerate XML parser.Give the name of parser.Also mention the advantages and   10
          disadvantages. [CO2]

5-b.   Define DTD . Also explain the differences with xml schema. [CO2]   10

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

6-a. Create a web page which displays a hyperlink for each subject in your current semester. When the user clicks a link, it should open the respective subject's page. [Note: The subject pages can be empty]. Use CSS pseudo classes on hyper links. [CO3] 10

6-b. Provide three CSS rules that implement links as follows. All links should have no underlining. Unvisited links should be dark green. Visited links should be pink. [CO3] 10

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

7-a. Explain javascript Validation with the help of suitable example. [CO4] 10

7-b. Build a JavaScript program to convert temperature from Celsius to Fahrenheit and vice versa. [CO4] 10

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

8-a. Explain in detail about session control in PHP?[CO5] 10

8-b. How can create cookies with php and also write syntax of it? [CO5] 10