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**NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA**

**(An Autonomous Institute Affiliated to AKTU, Lucknow)**

**B.Tech**

**SEM: V - THEORY EXAMINATION DEC - 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. Select among below which is not a browser: [CO1] 1
- (a) Google Crome
  - (b) Google
  - (c) Edge
  - (d) Safari
- 1-b. E-mail service uses a protocol known as [CO1] 1
- (a) POP3
  - (b) IMAP
  - (c) SMTP
  - (d) All the Above
- 1-c. Choose the types of lists in HTML. [CO2] 1
- (a) Ordered and Unordered Lists
  - (b) Bulleted and numbered lists
  - (c) Named and unnamed lists

(d) Alphabetic lists

- 1-d. Which of the following is the correct syntax for using the HTML style attribute? [CO2] 1
- (a) <tagname style>
  - (b) <tagname property;>
  - (c) <tagname style="property;">
  - (d) <tagname style="property:value;">
- 1-e. Suppose the designer has to rotate objects using CSS3 by 30 degrees, which syntax he will choose from below?: [CO3] 1
- (a) object-rotation: 30deg;
  - (b) rotate-object: 30deg;
  - (c) transform: rotate(30deg);
  - (d) transform: rotate-30deg-clockwise;
- 1-f. Name the selector that is used to specify a rule to bind to a particular unique element. [CO3] 1
- (a) tag
  - (b) id
  - (c) class
  - (d) object
- 1-g. Identify the value that will be displayed in alert box at line 5? [CO4] 1
- ```
function test(myname){  
  console.log(10+"test" +12);  
}  
res=test(10);  
console.log(res); //line 5
```
- (a) 10
  - (b) undefined
  - (c) 10test12
  - (d) error
- 1-h. Choose a datatype which can be declared to be a constant type? [CO4] 1
- (a) Constant
  - (b) Var
  - (c) Let
  - (d) Const

- 1-i. A variable name can only contain \_\_\_\_\_? [CO5] 1
- (a) alphanumeric characters
  - (b) underscores
  - (c) Both A and B
  - (d) None of the above
- 1-j. What does PEAR stands for? [CO5] 1
- (a) PHP extension and application repository
  - (b) PHP enhancement and application reduce
  - (c) PHP event and application repository
  - (d) None of the above

**2. Attempt all parts:-**

- 2.a. Discuss two-tier architecture in web technology. [CO1] 2
- 2.b. Explain with example the division based layout and semantic tags in html. [CO2] 2
- 2.c. Write CSS style rule that applies the background declaration to div element. [CO3] 2
- 2.d. How many types of errors are there in JavaScript? Discuss about spread and rest operator in javascript. [CO4] 2
- 2.e. Construct a code to show destroying the variables and session in PHP. [CO5] 2

**SECTION B**

**30**

**3. Answer any five of the following:-**

- 3-a. Elaborate service oriented architecture with examples. [CO1] 6
- 3-b. Differentiate between Web Client & Web Server. Also, explain the basic principles involved in developing a web site. [CO1] 6
- 3-c. Explain well formed and valid XML with an example. [CO2] 6
- 3-d. Design a HTML form for booking a ticket in railway reservation system. Validate the form for five customers. [CO2] 6
- 3.e. Differentiate between visibility: hidden and display:none properties in CSS? [CO3] 6
- 3.f. Describe global variables. How are these variable declared in javascript. Explain with example. [CO4] 6
- 3.g. Explain the process to compare objects in PHP? [CO5] 6

**SECTION C**

**50**

**4. Answer any one of the following:-**

- 4-a. Write a detailed note on Web 3.0 standards. Also, explain the publication/subscription model. [CO1] 10
- 4-b. Discuss the web hosting basics. Explain the types of web hosting packages in real scenario. [CO1] 10

**5. Answer any one of the following:-**

- 5-a. Discuss how frames play a big role in advertising on web. Make a web page using frames divided in three pages header.html, nav.html, and body.html divided in a table in two rows. [CO2] 10
- 5-b. Define XML and its significance. Differentiate between XML and HTML, along with the method of parsing in XML. [CO2] 10

**6. Answer any one of the following:-**

- 6-a. Using type selectors, write a CSS rule that creates a thin solid single-line border around all tables and uses a single line to separate adjacent columns and adjacent row. [CO3] 10
- 6-b. Using type selectors, write a CSS rule that puts 5 pixels of padding around the text in each table header and data cell. [CO3] 10

**7. Answer any one of the following:-**

- 7-a. Explain javascript validation. Construct a web page using javascript validation for a student form capturing the data for placement office. [CO4] 10
- 7-b. Explain the escape characters in JavaScript and about callback functions. [CO4] 10

**8. Answer any one of the following:-**

- 8-a. Write about the functions of session\_cache\_limiter, session\_commit, session\_get\_cookie\_params, session\_id and session\_name in PHP? [CO5] 10
- 8-b. Differentiate between the session and cookies. Create a program in PHP to create the cookie, retrieve the cookie value, and delete the cookie. [CO5] 10