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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

B.Tech

SEM: VI - THEORY EXAMINATION (2023 - 2024)

Subject: Modern Web Applications

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. | Web browser is a kind of (CO1) | 1 |
| | (a) Application Software | |
| | (b) HTML Interpreter | |
| | (c) Web Client | |
| | (d) All of the above | |
| 1-b. | The general definition of a(n) ___ is a set of linked documents with shared attributes, such as related topics, a similar design, or a shared purpose. (CO1) | 1 |
| | (a) Homepage | |
| | (b) Website | |
| | (c) HTML File | |
| | (d) Hyperlinks | |
| 1-c. | Classify the following attribute is used to provide a unique name to an element. (CO2) | 1 |
| | (a) class | |

- (b) id
(c) type
(d) None of the above
- 1-d. Select property used to change the text color of an element. (CO2) 1
(a) fontcolor:
(b) textcolor:
(c) textcolorelement:
(d) color:
- 1-e. Closures in Javascript. (CO3) 1
(a) Variables
(b) Functions
(c) Objects
(d) All of the above
- 1-f. Arrays in JavaScript are defined by which of the following statements? (CO3) 1
(a) It is an ordered list of values
(b) It is an ordered list of objects
(c) It is an ordered list of string
(d) It is an ordered list of functions
- 1-g. AngularJS is a _____. (CO4) 1
(a) HTML Framework
(b) .Net Framework
(c) JavaScript framework
(d) Oracle Framework
- 1-h. Bootstrap package includes. (CO4) 1
(a) Scaffolding
(b) Components
(c) JavaScript Plugins
(d) All of the above
- 1-i. Acronym of REST stands for. (CO5) 1
(a) Representational state transform
(b) Representational state transfer
(c) Represent state transform
(d) Represent state transfer

- 1-j. Protocol used in REST (CO5) 1
- (a) HTTP
 - (b) FTP
 - (c) JMX
 - (d) SOAP

2. Attempt all parts:-

- 2.a. Discuss Web Hosting. Give examples. (CO1) 2
- 2.b. Describe an ID selector in CSS. (CO2) 2
- 2.c. Illustrate the working of timers in JavaScript. (CO3) 2
- 2.d. Explain Angular JS module. (CO4) 2
- 2.e. Explain Statelessness. (CO5) 2

SECTION B

30

3. Answer any five of the following:-

- 3-a. Elaborate Service oriented Architecture with examples. (CO1) 6
- 3-b. Discuss the principles involved in choosing the right domain for a website. (CO1) 6
- 3-c. Explain ROWSPAN , COLSPAN, CELLPADDING and CELLSPACING tags of HTML with example. (CO2) 6
- 3-d. Explain about various TABLE tags available in HTML with an examples. (CO2) 6
- 3.e. Discuss the scopes of a variable in JavaScript. (CO3) 6
- 3.f. Define chaining in jQuery. Give its advantages. (CO4) 6
- 3.g. Differentiate between JSP and HTML. (CO5) 6

SECTION C

50

4. Answer any one of the following:-

- 4-a. Discuss how the History of Web and Internet is evolved over time. (CO1) 10
- 4-b. Discuss three tier architecture. (CO1) 10

5. Answer any one of the following:-

- 5-a. Create HTML form for Registration of a student in college. (CO2) 10
- 5-b. Design a HTML form for railway reservation system. (CO2) 10

6. Answer any one of the following:-

- 6-a. Explain recursion in a programming language. (CO3) 10
- 6-b. Describe the Looping Structures and conditional statements in JavaScript. (CO3) 10

7. Answer any one of the following:-

- 7-a. Describe events and their type in AJAX. (CO4) 10
- 7-b. Differentiate between .empty(),.remove(),.detach() in jQuery. (CO4) 10

8. Answer any one of the following:-

- 8-a. Explain about the different methods used for Session tracking. (CO5) 10
- 8-b. Explain some of the commonly used HTTP methods used in REST based architecture. (CO5) 10

REG. MAY 2024