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Subject Code:- ACSBS0612

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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 (2022-2023)

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. Who invented the World Wide Web? [CO1] 1
- (a) Tim Berners Lee
(b) Tim Berneers
(c) Lee Tim
(d) www
- 1-b. A web client is a [CO1] 1
- (a) Set of web clients
(b) Machine at user side
(c) Web Protocol
(d) Web Communication standard
- 1-c. In HTML, Discuss the attribute used to create a link that opens in a new window tab.[CO2] 1
- (a) src="_blank"
(b) alt="_blank"

- (c) target="_self"
(d) target="_blank"
- 1-d. Inline styles are written within the ____ attribute.[CO2] 1
- (a) style
(b) css
(c) stylesheet
(d) Both A. and B.
- 1-e. In JavaScript the x===y statement implies that: [CO3] 1
- (a) Both x and y are equal in value, type and reference address as well.
(b) Both x and y are equal in value only.
(c) Both are equal in the value and data type.
(d) Both are not same at all.
- 1-f. Which one of the following is a ternary operator: [CO3] 1
- (a) ?
(b) :
(c) -
(d) +
- 1-g. In which format does AngularJS require to populate its data? [CO4] 1
- (a) XML
(b) CSV
(c) JSON
(d) AngularJS accepts any format
- 1-h. Which of the below is an Invalid filter in AngularJS? [CO4] 1
- (a) JSON
(b) limitTo
(c) orderBy
(d) email
- 1-i. Which of the following component of HTTP request contains metadata for the HTTP Request message as key-value pairs? [CO5] 1
- (a) VERB
(b) URI
(c) HTTP Version
(d) Request Header

- 1-j. Which of the following component of HTTP response indicates HTTP version? [CO5] 1
- (a) Status/Response Code
 - (b) HTTP Version
 - (c) Response Header
 - (d) Response Body

2. Attempt all parts:-

- 2.a. Define search engines. Write names of five popular search engines. [CO1] 2
- 2.b. Describe the drawbacks of HTML? [CO2] 2
- 2.c. What is a prompt box? [CO3] 2
- 2.d. Consider the below statement – what will be the output? 2

The result is: {{qty * price}} [CO4]

- 2.e. What are the best practices to create a standard URI for a web service? [CO5] 2

SECTION B

30

3. Answer any five of the following:-

- 3-a. Discuss the principles involved in developing a web site. [CO1] 6
- 3-b. Discuss the principles involved in choosing the right domain for a website. [CO1] 6
- 3-c. Give the overview and features of HTML5. [CO2] 6
- 3-d. How to center align a div inside another div? [CO2] 6
- 3.e. What are the advantages of JavaScript? [CO3] 6
- 3.f. How do you include a module as a dependency of another module ? Give code also. [CO4] 6
- 3.g. What are the difference between JSP and HTML. [CO4] 6

SECTION C

50

4. Answer any one of the following:-

- 4-a. What Is The Primary Function Of The Web Browsers? [CO1] 10
- 4-b. Explain website and its purpose. [CO1] 10

5. Answer any one of the following:-

- 5-a. Explain how to validate an HTML form. Write a program to check the following validation: (i)Checking all input field for non empty (ii) Length of first name and last name must be less than 20 characters. (iii)Mobile number should be a 10

number & 10 digit length.(iv)Email validation (v>Password validation (vi)Date validation(Not equal to the current date) [CO2]

5-b. Design a website for Blood bank management system using HTML. [CO2] 10

6. Answer any one of the following:-

6-a. What is recursion in a programming language? Explain. [CO3] 10

6-b. What are classes in javascript?Explain with examples.[CO3] 10

7. Answer any one of the following:-

7-a. Explain the method to remove white spaces from a string using jQuery ? [CO4] 10

7-b. Give the four parameters used for jQuery AJAX method and explain with example. [CO4] 10

8. Answer any one of the following:-

8-a. Explain the components of JSP. [CO5] 10

8-b. How can you represent a resource? Explain through an example. [CO5] 10

2022-23 Jan_June