General Instructions:

Should give detailed explanation for theory parts if necessary syntax. Just writing the content from the slide or any study material without your own explanation is not all enough

SCHOOL OF INFORMATION TECHNOLOGY AND ENGINEERING

CONTINUOUS ASSESSMENT TEST – I

WINTER SEMESTER 2020-2021

Programme Name & Branch: B.TECH

Course Name Code: CSE3002

Course Name: Internet and Web Programming

Slot: F1

Faculty Name(s): VIJAYARANI A

Class Number(s): VL2020210504565

Exam Duration: 50 mins   Maximum Marks: 30

ANSWER ALL THE QUESTIONS

S.NO	QUESTION	Marks

1.	Explain the DNS hierarchical structure in detail. Give the DNS structure for the following:
	   a. http://amazon.com:72/mobilepage1.php
	   b. https://www.tutorialspoint.com/python/python_environment.htm
		10

Key	DNS structure should explain from the root level to server name in detail with the tree structure. The structure of a & b should be explained like protocol, server, second domain, port number, third domain if any, page, etc. and a tree should draw for those.	
2.	How a link can be provided in HTML to visit other pages? Explain it in detail. Define few HTML pages and provide the link to traverse those pages and return to the main page.	10
Key	Complete explanation of <a> and <href> should be provided. Few programs have to be listed with link to each other.	
3.	A programmer is allotted with the job to develop a program which received register number and grade of 'n' students for a course as input and counts number of students in each grade. The grade ranges are A – F and S. You are requested to suggest the programmer to adopt the necessary conditional statement(s) with justification. Provide the snippet of the condition part using JavaScript.	10
Key	Justification about the selected statements should be given with the reason stated that "Why this statement is better than others". Snippet should be given with a for loop and the conditional statement to check grade along with counting of each grades. (Note: Some students included the document.write statement instead of count which is not correct)	

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ANSWER ALL THE QUESTIONS

S.NO	QUESTION	Marks
1.	Identify the client requests and server responses from the following by highlighting the unique the feature.	10
| a. | ```
HTTP/1.1 404 Not Found
Date: Sun, 18 Oct 2012 10:36:20 GMT
Server: Apache/2.2.14 (Win32)
Content-Length: 230
Connection: Closed
Content-Type: text/html; charset=iso-8859-1
``` | |
| b. | ```
POST /cgi-bin/process.cgi HTTP/1.1
User-Agent: Mozilla/4.0 (compatible; MSIE5.01;
Windows NT)
Host: www.dyxz.com
Content-Type: text/xml; charset=utf-8
Content-Length: 88
Accept-Language: en-us
Accept-Encoding: gzip, deflate
Connection: Keep-Alive
``` | |
| c. | ```
HTTP/1.1 404 Not Found
Date: Sun, 18 Oct 2012 10:36:20 GMT
Server: Apache/2.2.14 (Win32)
Content-Length: 230
Connection: Closed
Content-Type: text/html; charset=iso-8859-1
``` | |

| d. | ```
GET /hello.htm HTTP/1.1
User-Agent: Mozilla/4.0 (compatible; MSIE5.01;
Windows NT)
Host: www.tutorialspoint.com
Accept-Language: en-us
Accept-Encoding: gzip, deflate
Connection: Keep-Alive
``` | |
Key	Justification required for all requests/responses. Also the details should be listed of each types.	
2.	How can be the image displayed in the background of a web page? Explain the supporting attributes in HTML and CSS. What are the various methods to control it? Give example for each controls.	10
Key	<background> tag with all attributes of CSS and <body> tag with background of HTML have to be explained with sample layout. Also, list the repeat and scroll attribute of CSS	
3.	A programmer is allotted with the job to develop a program which finds the grade for all students of a course based on the mark they have obtained. The grade calculation will be done as per the following table: | Mark Range	Grade
100-90	S
89-80	A
79-70	B
69-60	C
59-55	D
54-50	E
<50	F | You are requested to suggest the programmer to adopt the necessary conditional statement(s) with justification. Provide the snippet of the condition part using JavaScript.	10
Key	Justification about the selected statements should be given with the reason stated that "Why this statement is better than others". Snippet should be given with a for loop and the conditional statement to find grade and should be assigned to a variable.	