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Code No. : 16638 O

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD

Accredited by NAAC with A++ Grade

B.E. (I.T.) VI-Semester Backlog Examinations, June-2022

Web Technologies

Time: 3 hours

Max. Marks: 60

Note: Answer all questions from **Part-A** and any **FIVE** from **Part-B**

Part-A (10 × 2 = 20 Marks)

Q. No.	Stem of the question	M	L	CO	PO
1.	Distinguish between Internet and World Wide Web.	2	1	1	1
2.	Write the types of lists in HTML with suitable examples.	2	2	1	1
3.	What will be the output of the following JavaScript code? function myFunction() { var str = "Is this all there is?"; var patt1 = /^[ht\s]*/g; var result = str.match(patt1); console.log(result); }	2	3	2	2
4.	Describe the following string objects with an example each. i) slice ii) splice	2	3	2	3
5.	What are the conceptual classes that can be used with a Table, in Bootstrap?	2	2	3	2
6.	Distinguish between .container class and .container-fluid class along with an example in Bootstrap.	2	1	3	1
7.	Write the purpose of cookies and their methods.	2	1	4	1
8.	State the differences between GET and POST methods.	2	2	4	2
9.	How JSP resolves the problems with servlets.	2	1	5	1
10.	List JSP implicit objects.	2	2	5	2
Part-B (5 × 8 = 40 Marks)					
11. a)	Define Web-browser and Web Server. Discuss the different steps in browser-server interaction using HTTP.	4	1	1	1

b) Write HTML/CSS code that produces the following output.

4 3 1 3

Famous spiritual singers

Celebrate divinity with the following singers and music albums.

Name	Albums	
Peter Kater	Heart of the universe	Divine soul
Snatam Kaur	Anand bliss	Celebrate peace

12. a) Discuss about Document Object Model (DOM) in JavaScript in detail.

4 1 2 2

b) Write JavaScript to validate password in a form. The password

4 3 2 3

- i) Must begin with an uppercase letter followed by 3 digits, followed by 2 or more lowercase/uppercase letters followed by 2 special characters.
- ii) Password length must be greater than 8 characters.
- iii) Password field should not be empty.
- iv) password cannot have more than 15 characters
- v) Special characters in the password can be \$,#,@

13. a) Create buttons of following colors using bootstrap classes and <button> tag.

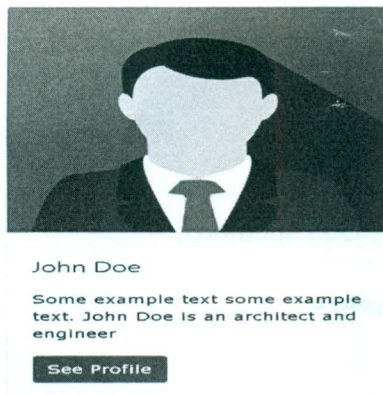
4 2 3 2

- i) Blue (ii) Gray (iii) Green (iv) Yellow

Also create a carousal with 3 images pic1.png, pic2.png and pic3.png.

b) Explain the Bootstrap Grid System. Develop a web page which is rendered as follows.

4 4 3 3



14. a) A web application that takes name and age from an HTML page. If the age is less than 18, it should send a page with "Hello , you are not authorized to visit this site" message, where should be replaced with the entered name. Otherwise it should send "Welcome to this site" message.

4 4 4 3

b) Discuss about session tracking in servlets with a suitable example

4 1 4 1

15. a)	Draw architecture of JSP and lifecycle phases of JSP	4	2	5	1
b)	<p>Write a client server JSP program to operate a simple calculator and display the result. The Input screen is as follows:</p> <p style="text-align: center;">Basic Calculator</p> <p>Number 1 <input type="text"/></p> <p>Number 2 <input type="text"/></p> <p><input type="radio"/> Add(+) <input type="radio"/> Sub(-) <input type="radio"/> Mul(*) <input type="radio"/> Div(/)</p> <p style="text-align: center;"><input type="button" value="submit"/></p>	4	3	5	2
16. a)	What are cascading style sheets? What are the different ways of using them in designing web pages? Explain with example.	4	2	1	2
b)	<p>Write a JavaScript program to add items in a blank array and display the items.</p> <p><i>Sample Screen:</i></p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <input type="text"/> <input type="button" value="Add"/> <input type="button" value="Display"/> </div> <p>Element 0 = 23 Element 1 = 12 Element 2 = 25</p>	4	4	2	4
17.	<p>Answer any <i>two</i> of the following:</p> <p>a) Illustrate the following boot strap components i) Jumbotron ii) Breadcrumb</p> <p>b) Write a java script to validate a form consisting of a hall ticket number as username and mobile number as password. Also navigate to another webpage after validation using servlets</p> <p>c) Write a JSP to demonstrate the usage of page and include directives.</p>	4	2	3	2
		4	3	4	2
		4	4	5	3

M : Marks; L: Bloom's Taxonomy Level; CO; Course Outcome; PO: Programme Outcome

i)	Blooms Taxonomy Level – 1	26.30%
ii)	Blooms Taxonomy Level – 2	31.57%
iii)	Blooms Taxonomy Level – 3 & 4	42.13%
