VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD
Accredited by NAAC with A++ Grade
B.E. (I.T.) VI-Semester Advanced Supplementary Examinations, August-2022
Web Technology

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.	Write down the name of the technology/framework/protocol which can be used for the following four cases of web development: a) to communicate with the server without refreshing the web page for better user experience and performance b) for both front and back end programming. c) data format to enable communication between web applications d) to define vector-based graphics in XML format.	2	2	1	1
2.	a) How can you use CSS to control image repetition? b) How can you target h3 and h2 with the same styling?	2	3	1	2
3.	What is the role of JavaScript in client side web page development?	2	1	2	1
4.	Is there any difference between 'valid xml' and 'well-formed xml'? Justify.	2	2	2	1
5.	a) Why do we use Jumbotron in Bootstrap? b) List some simple ways to display code in Bootstrap.	2	3	3	2
6.	List any 4 built-in directives in AngularJS along with their purpose.	2	1	3	1
7.	Can a subsequent request be accessed with one's servlet code, if a request attribute is already sent in his JSP?	2	2	4	2
8.	What is URL rewriting ?	2	1	4	1
9.	Mention what are JAX-WS and JAX-RS?	2	1	5	1
10.	Mention what is the difference between RPC or document style web services? How do you determine to which one to choose?	2	2	5	1

Part-B (5 × 8 = 40 Marks)

Q. No.	Stem of the question	M	L	CO	PO
11. a)	Differentiate between Web 1.0, Web 2.0, and Web 3.0.	3	3	1	2
b)	Write code for the following in HTML. i. modify the attribute's value of the HTML tag dynamically? ii. change inline elements into block-level elements? iii. open an URL into a new tab when clicked?	5	4	1	3
12. a)	What is an XML DOM. How DOM parses the XML file.	4	2	2	1
b)	Explain the process of handling events using JavaScript with appropriate examples	4	1	2	1

20
12
32

			M	L	CO	PO
13.	a)	What will be the output of the below code and why?	4	4	3	2

```
<div class="progress">
        <div class="progress-bar bg-success" style="width: 65%">
              <span class="sr-only">75% successfully completed</span>
        </div>
        <div class="progress-bar bg-warning" style="width: 20%">
              <span class="sr-only">30% completed with warnings</span>
        </div>
        <div class="progress-bar bg-danger" style="width: 15%">
              <span class="sr-only">15% did not complete</span>
        </div>
</div>
```

			M	L	CO	PO
	b)	How do you share data between controllers in Angular JS?	4	3	3	2
14.	a)	What does Model-View-Controller represent in an MVC application? Also, explain how are sessions maintained in MVC?	4	2	4	1

	b)	Write one/two lines of code to achieve the following in JSP:
		  i. To stop Multiple Submits to a Web Page that are initiated by clicking to refresh button.
		  ii. disable the caching on the back button of a particular browser
		  iii. stop errors on Display in a JSP Page?
		  iv. include static files in a JSP?
			4	4	4	3

15.	a)	Differentiate SOAP and REST in detail.	4	2	5	1
	b)	Why is Web Service Needed? How to test a web service using automation testing?	4	3	5	2
16.	a)	Without using the form tag also we can place objects like checkboxes, textboxes on the form. Then what is the significance of the form tag? Discuss	4	3	1	3
	b)	What is a "closure" in JavaScript? Explain with a code example.	4	2	2	1
17.		Answer any *two* of the following:				
	a)	What is the main difference between a link and compile in Angular.js? Explain the linking function and its types.	4	2	3	1
	b)	What is Servlets? Explain Servlet Life cycle.	4	1	4	1
	c)	Explain the web services architecture and explain the key technologies involved.	4	2	5	1

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

i)	Blooms Taxonomy Level – 1	20%
ii)	Blooms Taxonomy Level – 2	40%
iii)	Blooms Taxonomy Level – 3 & 4	40%

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IT– VI Sem

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