

Hall Ticket Number:

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Code No. : 16147 (E) N/O

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD
Accredited by NAAC with A++ Grade

B.E. VI-Semester Main & Backlog Examinations, May/June-2023

Web Application Development and Security (OE-IV)

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 and <div> tags with example.	2	2	1	1											
2.	In the development of a website, describe the various methods of embedding style to your HTML page.	2	1	1	1											
3.	Define Array. Describe the different ways to create an array in JavaScript with suitable examples.	2	1	2	1											
4.	Write the JavaScript to read the string "AM" or "PM" from the user and print "Good Morning" or "Good Evening" based on the input, using IF-ELSE condition.	2	3	2	2											
5.	What is meant by "mobile first" front end development frameworks? Give two examples.	2	1	3	1											
6.	Describe the difference between container class and container-fluid class with an example	2	2	3	1											
7.	Write a DTD program to display the employee details (Name, Address, Phone number).	2	1	4	1											
8.	List the benefits of using MVC.	2	2	4	1											
9.	An HTTP/1.1 Request Header contains the following lines. connection: keep-alive keep-alive: 300 What is the purpose of these fields in HTTP Client Server communication?	2	1	5	1											
10.	Distinguish between web 1.0 and web 2.0.	2	2	5	1											
11. a)	Write HTML code to generate the following on a web browser. <table border="1" data-bbox="183 1680 1045 2027"> <thead> <tr> <th>Name</th> <th>Jobs</th> <th>Working Experience</th> </tr> </thead> <tbody> <tr> <td>John</td> <td>Software Engineer Data Analyst</td> <td rowspan="2">5 Years</td> </tr> <tr> <td>Ale</td> <td>Senior Web developer</td> </tr> <tr> <td>Jack</td> <td>Junior Tech Writer Blogger</td> <td>6 Months</td> </tr> </tbody> </table>	Name	Jobs	Working Experience	John	Software Engineer Data Analyst	5 Years	Ale	Senior Web developer	Jack	Junior Tech Writer Blogger	6 Months	5	4	1	2
Name	Jobs	Working Experience														
John	Software Engineer Data Analyst	5 Years														
Ale	Senior Web developer															
Jack	Junior Tech Writer Blogger	6 Months														

b)	Define Frame in HTML. Discuss how to create horizontal and vertical frames with suitable examples	3	3	1	2
12. a)	Write a java script to validate a form consisting of a hall ticket number(\$\$\$\$-\$\$-\$\$-\$\$\$) username and mobile number as password. Password should be 10 digits. Also navigate to another web page after password validation and On clicking the button, the name of the branch that the student belongs to, should be displayed using an alert. [732 = Civil, 733 = CSE, 734 = EEE, 735 = ECE, 736 = Mech, 737 = IT]	5	3	2	2
b)	Write HTML code to accept input from the user for course registration. Input will include Name, Age and Email-id. Write code for validating input data.	3	2	2	1
13. a)	Describe the advantages of Twitter Bootstrap? Explain the working of grid layout including container classes, layout width and padding in bootstrap.	3	2	3	1
b)	Create the responsive webpage as below by using grid and utility classes of Bootstrap.	5	3	3	2
Basic Progress Bar					
HTML SKILL					
CSS SKILL					
Bootstrap SKILL					
JavaScript SKILL					
14. a)	Describe XML Tree Structure. Draw the XML tree for the code given below:	4	3	4	2
<code><?xml version="1.0"></code>					
<code><Library></code>					
<code> <Books><Mystery></code>					
<code> <Author>Daniel</Author></code>					
<code> <Price>500</Price></code>					
<code> </Mystery></code>					
<code> <Fiction></code>					
<code> <Author>John</Author></code>					
<code> <Price>600</Price></code>					
<code> </Fiction></code>					
<code></Books></code>					
<code></Library></code>					
b)	What is MVC? Illustrate and explain MVC architecture for any web application.	4	2	4	1

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|--------|---|---|---|---|---|
| 15. a) | Define Ethical Hacking. Describe DOS attack and Spoofing with examples. | 5 | 1 | 5 | 1 |
| b) | Explain the core defence mechanism employed by a web application for handling attackers | 3 | 2 | 5 | 1 |
| 16. a) | Write the HTML code to have the following static form on the web browser. | 4 | 4 | 1 | 1 |

HTML form

First name:

Last name:

E-mail:

Male

Female

Submit Reset

- | | | | | | |
|-----|--|---|---|---|---|
| b) | Define Event Handling. Discuss in detail about all the keyboard events in JavaScript with suitable examples. | 4 | 1 | 2 | 1 |
| 17. | Answer any <i>two</i> of the following: | | | | |
| a) | Write snippet of Bootstrap code for carousel component. | 4 | 2 | 3 | 1 |
| b) | What is DTD? How is it useful for validating XML? Explain with the help of an example. | 4 | 3 | 4 | 2 |
| c) | Explain the steps involved in client sever architecture with Hyper Text Transfer Protocol with neat diagram. | 4 | 2 | 5 | 1 |

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

i)	Blooms Taxonomy Level – 1	23.75%
ii)	Blooms Taxonomy Level – 2	36.25%
iii)	Blooms Taxonomy Level – 3 & 4	40%
