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Code No. : 16613

**VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD**

**B.E. (I.T.: CBCS) VI-Semester Main Examinations, January-2021**

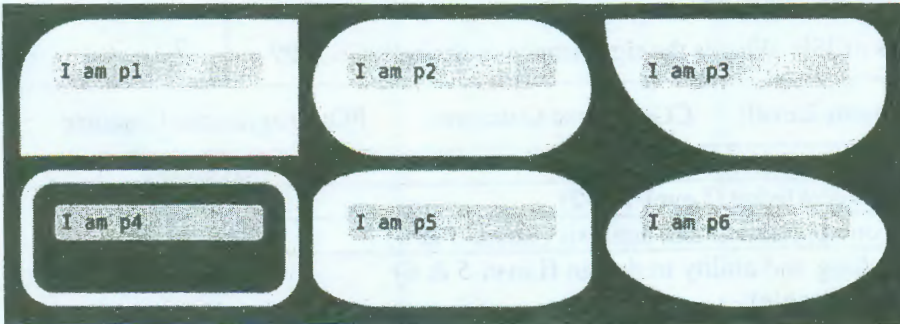
**Web Technologies**

Time: 2 hours

Max. Marks: 60

*Note: Answer any NINE questions from Part-A and any THREE from Part-B*

**Part-A (9 × 2 = 18 Marks)**

Q. No.	Stem of the question	M	L	CO	PO
1.	Write a brief note on following HTML tags. (i) span (ii) iframe	2	1	1	1
2.	How many types of headings does HTML support? List them.	2	1	1	1
3.	Write a block of code in JavaScript to create two arrays which include the first and last names of the students respectively, also write a statement for concatenating these arrays.	2	3	2	2
4.	List and explain any two JavaScript built-in objects.	2	2	2	1
5.	Illustrate the use of Carousel in bootstrap.	2	1	3	1
6.	Write html script with bootstrap to create a column that is displayed with span 4 for small devices and span 6 for large devices.	2	3	3	2
7.	What is MVC paradigm?	2	1	4	1
8.	Briefly explain the concept of servlet mapping.	2	2	4	1
9.	Write two basic differences between JSP and servlet.	2	2	5	1
10.	List the types of directives in JSP.	2	1	5	1
11.	What is CSS box model?	2	1	1	1
12.	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
<b>Part-B (3 × 14 = 42 Marks)</b>					
13. a)	Assume that you have written six <p> tags in your HTML code, and for each of the <p> tags you have specified their Ids such as p1, p2, p3, p4, p5, and p6. Also, under each <p> tag there is a text (for example for p1, the text is "I am p1") written under <code> tag. Apply the CSS properties to generate following output.	8	3	1	3
					
b)	What are the different ways to apply CSS to HTML? Give Examples for each of them.	6	2	1	1

14. a)	What is Document Object Model? Illustrate with examples how DOM is supported in JavaScript for accessing HTML form elements.	5	2	2	1
b)	Develop a web application using <i>JavaScript</i> for a game named as “hit or miss”. In this game, there is a circle, which is appearing and disappearing regularly (random intervals) on the screen at random positions. The player has to click on the circle before it disappears from the screen, we call it as a “hit” otherwise a “miss”. Whenever a hit or a miss occurs the counter values should be increased accordingly for hit and miss (Initially both are zero). A player will only win the game if the ratio of hit to miss is greater than 2 for him. The game can only be ended if the player clicks a “stop” button on the screen. Once the game is stopped, the result should be displayed on the screen whether the player has won the game or not?	9	6	2	3
15. a)	Discuss various features available in bootstrap for rendering different sizes of view ports for smartphones, tablets, laptops, and large desktops.	8	2	3	1
b)	Explain the working of grid layout including container classes, layout width and padding in bootstrap.	6	2	3	1
16. a)	Explain the Servlet life cycle with an example.	8	2	4	1
b)	Write a servlet to illustrate the principle of Cookies.	6	3	4	3
17. a)	Write a client server JSP program to find simple interest and display the result in the client.	8	3	5	3
b)	Describe the significance of implicit objects in JSP with suitable examples for each of them.	6	2	5	1
18. a)	Write and explain HTTP request message format.	6	2	1	1
b)	Write a javascript code to develop a web application, which checks whether given number is a triangular number (Triangular numbers are: 0, 1, 3, 6, 10, 15, 21, .....).	8	4	2	2
19.	Answer any <i>two</i> of the following:				
a)	Create buttons of following colors using bootstrap classes and <button> tag. (i) Blue (ii) Gray (iii) Green (iv) Yellow (v) Black (vi) White (vii) Red	7	3	3	2
b)	Write a code for creating cookies with name of person and secret code at the server, after getting these details from client using HTML form. How these details at the server side using HTTP servlet are displayed?	7	3	4	3
c)	Explain the life cycle methods of JSP. What is the significance of Scriptlets in JSP?	7	2	5	1

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

S. No.	Criteria for questions	Percentage
1	Fundamental knowledge (Level-1 & 2)	55
2	Knowledge on application and analysis (Level-3 & 4)	38
3	*Critical thinking and ability to design (Level-5 & 6) (*wherever applicable)	7

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