

Hall Ticket Number:

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Code No. : 16642 N

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD

Accredited by NAAC with A++ Grade

B.E. (I.T.) VI-Semester Main Examinations, May/June-2023

Web Technologies

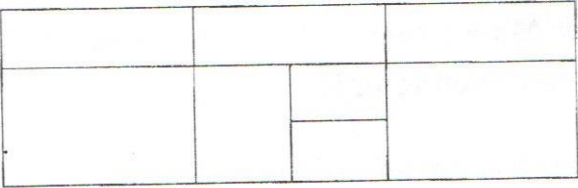
Time: 3 hours

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.	What is Cascading Style Sheet (CSS)? Discuss the importance of CSS in web designing.	2	1	1	1
2.	Write an HTML document to input two dates and find the duration (number of days) between them.	2	1	1	1
3.	Write a method in JavaScript that is used to search for substrings.	2	2	2	2
4.	How to create an XML document? Explain with an example.	2	1	2	1
5.	What is the Bootstrap class that can be used to create badges? Give an example.	2	1	3	1
6.	What are the advantages of ASP.NET?	2	1	3	1
7.	What is the role of JSX in web development?	2	1	4	1
8.	How to render a component in React?	2	1	4	1
9.	What are the features of Node.js?	2	1	5	1
10.	Write a MongoDB command to remove a document from the collection called 'employees' which contains the first name 'xyz'.	2	2	5	2
Part-B (5 × 8 = 40 Marks)					
11. a)	Design an HTML form to reserve a Railway ticket and add the following data validations to the form: i) Name should have 25 characters and it doesn't have any numbers or special characters. ii) Address should have 200 characters. iii) Credit card number is a 16-digit integer. iv) From city and To city are two different cities. v) Age of a passenger should not be greater than 100.	5	3	1	2
b)	Create a HTML application that enables the user to resize the background image on a button click.	3	3	1	2
12. a)	When can we say an XML document is well-formed? Illustrate the role of DTD in an XML document with an appropriate example.	4	2	2	1
b)	Write a JavaScript that inputs a line of text, tokenizes the line with string method split, and outputs the tokens in reverse order.	4	3	2	2

13. a)	Write a Bootstrap code for the following layout using tables. 	5	3	3	2
b)	Discuss the ASP.NET Page Life Cycle Events.	3	2	3	1
14. a)	How do you create a new React App? Discuss with an example React code.	4	2	4	1
b)	Discuss the React Component class with an example code.	4	2	4	1
15. a)	What are the CRUD operations? Write an example queries for CRUD operations in MongoDB.	4	3	5	2
b)	Illustrate the steps to access MongoDB from Node.js. Explain with an example code.	4	3	5	2
16. a)	Write a CSS to place a background image from a set of images. The image should get changed when the user clicks a button. Once the last image is changed, it should start from the first image.	4	2	1	1
b)	Write a JavaScript code block to calculate the age when the date of birth is entered by the user.	4	3	2	2
17.	Answer any <i>two</i> of the following:				
a)	Discuss the ASP.NET MVC architecture.	4	2	3	1
b)	How do you handle the events in React?	4	2	4	1
c)	Create a Node application to accept two numbers and perform arithmetic operations on them using functions. The functions should be exported from a local module.	4	3	5	2

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

i)	Blooms Taxonomy Level - 1	20%
ii)	Blooms Taxonomy Level - 2	38.75%
iii)	Blooms Taxonomy Level - 3 & 4	41.25%
