1. What are events and event handlers? Explain with proper example.

2. What are different ways to execute JavaScript in a browser? Explain with example.

3. Create HTML form with fields Full Name, Address, Telephone, Gender, Email, Country and Comments. Write JavaScript program to validate that form so that user will only write correct values. Check for empty values, number, and email and focus them on receiving invalid values.

4. What is JavaScript? Compare JavaScript with Object Oriented Programming like Java.

5. Write a client side program to display the continuous Time in the status bar of the browser. Time should be updated every second.

6. Write a program which includes a function **add** (). It should take arbitrary number of parameters and return the result by adding all the parameters. Use browser message box to display the output.

7. What are functions? How they are defined and invoked? Explain different types of functions we can use in JavaScript.

8. What is DOM? Explain its hierarchy with proper diagram and example.

9. Explain String & Math objects with all its property and methods. Also give examples on explanation.

10. What do you mean by cookies? What are advantages of using cookies? Explain all the fields related with creation of cookie.

11. Write a JavaScript program that will ask a value and store them in a cookie which need to be expire in an hour. After storing the value; upon clicking '**show**' button alert the stored value.

12. What is data type conversion? Describe different function of JavaScript that is used to convert the data type with proper example.

13. What is client side and server side programming? Explain with proper figure.

14. What is array? Explain in context to JavaScript. What are different ways to create and access the values of array?

15. Create a calculator type form. It should contain three list boxes. The first and third list boxes should list the numbers 0 to 9. The middle list box should list the following mathematical operators: +, -, * & /. The user should be able to select the two numbers and the operation. Answer should be shown on submission of the form.

16. Create an HTML code and JavaScript script that include a form with three input fields. The relationship of the value of the fields in that second field is twice the value of the first field. And the third field is square of the first field. First and Second field should be disable in nature.

17. What is client side scripting? Write the features of JavaScript. Write a program using JavaScript to find the sum of odd numbers from 0 to 200.

18. Write a program in JavaScript to display multiplication table as follows. Take the number input from the user. E.g. Input number is 4.

Multiplicand	Multiplier	Product
4	1	4
4	2	8
...	...	...

19. Write a program that reads 10 words from user and outputs only those which have "b" in the beginning.

20. Write a program to display a number randomly. The Random number should be generated when you click upon a link 'Click Me'. If the number is less than 20 then show a alert box with a message "Hey (random Number) is less than 20",and if the random number is greater than 20 then show a alert box with a message "Your(random Number) is greater than or equals to 20".

21. Write a program that displays the continuous time in the web page. The Time should be in the format of HH:MM:SS. [Hints use setTimeOut/setInterval function]

22. Write a program that will change the background color in every 2 seconds. Use at least 6 colors.

23. Write a program which includes a function **sum()**. This function **sum()** should be designed to add an arbitrary list of parameters.(For e.g. if you call the function sum() as sum (2, 3) it should return the result 5 and if again you call the function sum() as sum(2,3,4) it should return the result 9).

24. Write a program to ask the background color with user and change the backgr ound of the page.

25. Write a program to create two text boxes and two buttons. If the user inputs the value in first text box and click upon the button then the value entered into the first text box should be displayed into the second text box (in uppercase if the user have inputted

in lowercase and vice versa), similarly for the second text-box similarly for the second text box.

26. Write a program that reads 5 words from user (Use Prompt for receiving input) and displays the word that has 'ha' continuous character in between the words.

27. Write a program that will ask height & width and change the size of the bro wser window.

28. Write a program to store 10 names in array and print the array elements by j oining them.

29. Write a program which display a button, clicking on that the browser window needs to be closed.

30. What is Operator? Explain different operators used in JavaScript with example.

31. Explain how array can be used as associative array?

32. Explain the coding convention in JavaScript with example.

33. What are the purpose of comments? Explain various way of putting comments in JavaScript.

34. What is regular expression? Explain how it is used to validate numerical value with suitable example?

35. What is dialog box? Explain different dialog box used in JavaScript with suitable example.

36. What are different types of looping structure in JavaScript?