

22519

12425

03 Hours / 70 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Answer each next main Question on a new page.
(3) Illustrate your answer with neat sketches wherever necessary.
(4) Figures to the right indicate full marks.
(5) Assume suitable data, if necessary.
(6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

- 1. Attempt any FIVE of the following:** **10**
- a) List any four Bitwise operators with its meaning.
 - b) Give the Syntax of do-while statement.
 - c) Develop a program for embedding external JavaScript to the HTML file.
 - d) Develop a JavaScript program to add any two elements at the end.
 - e) Compare join() and concat() methods of an array object. (Any two points)
 - f) List any four attributes of <form> tag with their significance.
 - g) Give the syntax of any two timer functions.

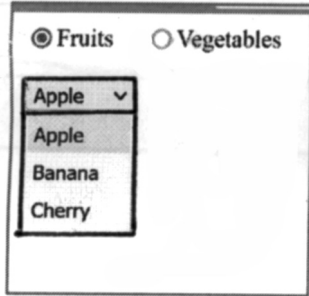
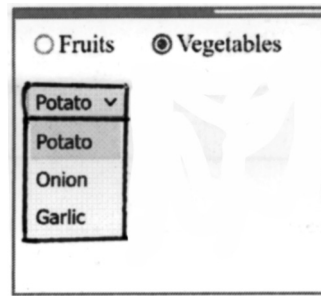
P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Explain “switch-case” statement with its syntax, working and a suitable example.
 - b) Describe the term-getter and setter property with a suitable example.
 - c) Construct a JavaScript program, to find whether a given number is prime or not.
 - d) Describe different methods used to convert a string to the number with the help of its syntax and example.
- 3. Attempt any THREE of the following:** **12**
- a) Explain the significance of charCode At() and from charCode() methods with suitable example.
 - b) Explain defining and calling a function with arguments using its syntax and example.
 - c) Develop a JavaScript program having an array of 5 integer elements then sort the elements in their descending order and display them.
 - d) Describe any eight features of JavaScript.
- 4. Attempt any THREE of the following:** **12**
- a) Demonstrate the use of non-explicit and explicit quantifiers used in regular expression.
 - b) Describe any four frameworks of JavaScript.
 - c) Discuss the JavaScript code to disable the visitors right mouse button while the browser displays your webpage.
 - d) Discuss the JavaScript code for calling a child windows JavaScript function.
 - e) List different technique to protect the web page and describe with example concealing email address technique.

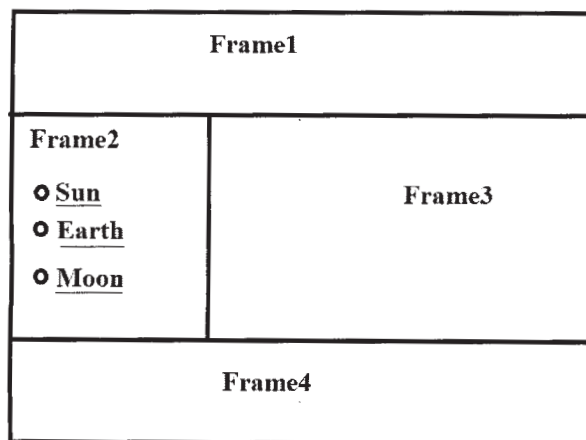
5. Attempt any TWO of the following:

12

- a) Develop a JavaScript program having webpage with two radio buttons, one select list and a reset button. One radio button is for fruits and another is for vegetables.

Fig. No. 1Fig. No. 2

- i) When user will select the fruits radio button the select list will present only the fruit names to the user. (As shown in a Figure No. 1)
- ii) When user will select vegetables radio button the select list should present only the vegetable names to the user. (As shown in a Figure No. 2)
- b) Explain how to read, write and delete cookie with example.
- c) Discuss the HTML and JavaScript code to visualize the following frame structure (As shown in a Figure No. 3)

Fig. No. 3

Sun, earth, Moon are links to the web page sun.html, earth.html and moon.html respectively when these links are clicked corresponding webpages appears in frame 3.

P.T.O.

6. Attempt any TWO of the following:**12**

- a) Discuss the following with its suitable example of event handling:
 - i) any three mouse related events.
 - ii) any three key related events.
- b) Construct a JavaScript program using regular expression to accomplish the following task,
 - i) Develop user interface using forms (As shown in a Figure No. 4)

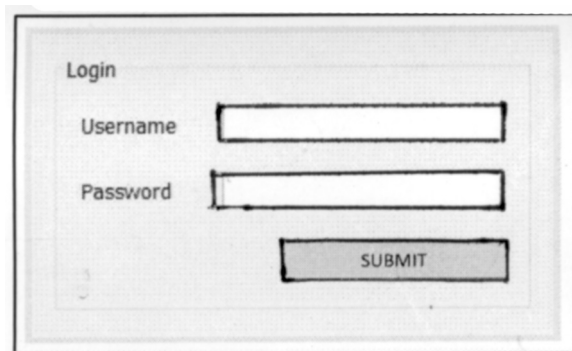
A screenshot of a web form titled "Login". It contains two input fields: "Username" and "Password". Below these fields is a button labeled "SUBMIT". The form is enclosed in a rectangular border.

Fig. No. 4

On submit button click,

- ii) If username contains any digit then show "invalid username" alert box.
 - iii) If password doesn't contain any special symbol then show "invalid password" alert box.
- c) Develop a JavaScript program to create rotating advertisement banner with URL links when user click on one of the rotating images then corresponding URL link web page will open in a new window.
