11920

3 Hours / 70 Marks   Seat No. ☐☐☐☐☐☐☐☐

Instructions :   (1)   All Questions are *compulsory.*

(2)   Illustrate your answers with neat sketches wherever necessary.

(3)   Figures to the right indicate full marks.

(4)   Assume suitable data, if necessary.

(5)   Preferably, write the answers in sequential order.

Marks

1. **Attempt any FIVE of the following :**   **10**

   (a)   List any four features of Java script.

   (b)   List the comparison operators in Java script.

   (c)   Write Java script to create person object with properties firstname, lastname, age, eye color, delete eye color property and display remaining properties of person object.

   (d)   Write a Java script that initializes an array called flowers with the names of 3 flowers. The script then displays array elements.

   (e)   Write Java script to call function from HTML.

   (f)   Write a Java script to design a form to accept values for user ID & password.

   (g)   State any two properties and methods of location object.

2. **Attempt any THREE of the following :**   **12**

   (a)   Explain getter and setter properties in Java script with suitable example.

   (b)   Explain prompt () and confirm () method of Java script with syntax and example.

(c) Write a Java script program which computes, the average marks of the following students then, this average is used to determine the corresponding grade.

StudentName	Marks
Sumit	80
Kalpesh	77
Amit	88
Tejas	93
Abhishek	65

The grades are computed as follows :

Range	Grade
< 60	E
< 70	D
< 80	C
< 90	B
< 100	A

(d) Write the use of CharAt() and indexof() with syntax and example.

3. **Attempt any THREE of the following :** **12**

(a) Differentiate between concat () and join () methods of array object.

(b) Write a Java script that will replace following specified value with another value in a string.

String = " I will fail"

Replace "fail" by "pass"

(c) Write a Java script code to display 5 elements of array in sorted order.

(d) Explain open () method of window object with syntax and example.

4. **Attempt any THREE of the following :** **12**

(a) Describe regular expression. Explain search () method used in regular expression with suitable example.

(b) List ways of protecting your web page and describe any one of them.

(c) Create a slideshow with the group of three images, also simulate next and previous transition between slides in your Java script.

(d) Explain text rollover with suitable example.

(e) Write a Java script to modify the status bar using on MouseOver and on MouseOut with links. When the user moves his mouse over the link, it will display "MSBTE" in the status bar. When the user moves his mouse away from the link the status bar will display nothing.

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

(a) Write a HTML script which displays 2 radiobuttons to the users for fruits and vegetable and 1 option list.

When user select fruits radio button option list should present only fruits names to the user & when user select vegetable radio button option list should present only vegetable names to the user.

(b) Describe, how to read cookie value and write a cookie value. Explain with example.

(c) Write a Java script that displays textboxes for accepting name & email ID & a submit button. Write Java script code such that when the user clicks on submit button

(1) Name Validation

(2) Email ID validation

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

   (a) Describe how to evaluate checkbox selection. Explain with suitable example.

   (b) Write a script for creating following frame structure

FRAME 1	
FRAME 2 • FRUITS • FLOWERS • CITIES	FRAME 3

   FRUITS, FLOWERS and CITIES are links to the webpage fruits.html, flowers.html, cities.html respectively. When these links are clicked corresponding data appears in FRAME 3.

   (c) Write a Javascript to create a pull – down menu with three options [Google, MSBTE, Yahoo] once the user will select one of the options then user will be redirected to that site.

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