Total No. of Questions : 8]

SEAT No. :

PF5284

[Total No. of Pages : 2

[6627]-129

B.E. (E & TC/Electronics)

JAVASCRIPT

(2019 Pattern) (Semester-VII) (404184C) (Elective - III)

Time : 2½ Hours] *[Max. Marks : 70*

Instructions to the candidates:

1) ***Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.***
2) ***Neat diagrams must be drawn wherever necessary.***
3) ***Figures to the right indicate full marks.***
4) ***Use of Calculator is allowed.***
5) ***Assume suitable data if necessary.***

Q1) a) What is recursive function? Give one example by writing a program. **[6]**

b) What are Common properties and methods of object in JavaScript? **[6]**

c) Write a JavaScript program that will append an object to an array and will check if an object is an array. **[6]**

OR

Q2) a) What is Anonymous Functions in JavaScript? Explain its use with an example. **[6]**

b) What is function? Explain with example how to pass and return parameters and arguments from called function to the calling function. **[6]**

c) Explain data types in JavaScript? Differentiate between primitive and non-primitive. **[6]**

Q3) a) What is Regular Expression in JavaScript and explain the need of regular expressions. **[6]**

b) Explain Look ahead and Look behind concepts in JavaScript. **[6]**

c) Explain Character Classes in JavaScript. **[5]**

OR

P.T.O.

Q4) a) Explain string methods for Regular Expression in JavaScript. **[6]**

b) Write a program to study string related built-in methods in JavaScript. **[6]**

c) Write a JavaScript program to following operations on a given string, **[5]**

- Reverse string
- Replace characters of a string.
- String is Palindrome

Q5) a) Define JavaScript object model and explain four distinct object models used in JavaScript. **[6]**

b) Differentiate between HTML and DHTML. **[6]**

c) Write a JavaScript program to create a Home page of any website and change background color using. **[6]**

On mouse over event (mouse over)

On focus event (focus)

OR

Q6) a) Describe Document properties and methods with their HTML relationship. **[6]**

b) Explain event and event handler with an example. **[6]**

c) Explain DOM and CSS Elements with example. **[6]**

Q7) a) List and explain various popular windows events? **[6]**

b) Explain the form handling and the terms form fields, validations, Dynamic forms, Form usability with an example. **[5]**

c) Design and implement a simple calculator using Java script for operations like addition, multiplication, subtraction, division, square of a number. **[6]**

OR

Q8) a) Explain Various method to control windows and list out window features. **[6]**

b) What is frame and explain the HTML tags to create frames and how to change the properties of the frame? **[5]**

c) Create a student information Form to accept information like Name, Address, City, State ,Gender, Mobile Number, and email id. Perform validations for: **[6]**

- Correct Names
- Mobile Names
- Email I.D.'s



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