[5927]-383
B.E. (E & TC)
JAVA SCRIPT
(2019 Pattern) (Semester-VII) (Elective - III) (404184C)

Time : 2½ Hours] *[Max. Marks : 70*

Instructions to the candidates:

1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.*
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 function? Explain with example how to pass and return parameters and arguments from called function to the calling function. **[6]**

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

c) Write a JavaScript program to pass the function by reference, perform addition of two objects inside the function and display the result in calling function. **[6]**

OR

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

b) Write a JavaScript program that will append an object to an array and will check if an object is an array datatypes. **[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) Write a program to study string related built-in methods in JavaScript.**[5]**

OR

P.T.O.

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

b) Explain Character Classes in JavaScript. **[6]**

c) What are the limitations of Regular Expression. **[5]**

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

b) Explain event and event handler with an example. **[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) Differentiate between HTML. and DHTML. **[6]**

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

Q7) a) Explain Various methods to control windows and list out window features. **[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) List and explain various popular windows events? **[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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