P P SAVANI UNIVERSITY

Fourth Semester of B. Tech. Examination
May 2022
SECE2100 Introduction to JavaScript

25.05.2022, Wednesday   Time: 09:00 a.m. To 11:30 a.m.   Maximum Marks: 60

Instructions:
1. The question paper comprises of two sections.
2. Section I and II must be attempted in same answer sheet.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

SECTION – I

Q - 1	Answer the Following: (MCQ/Short Question/Fill in the Blanks)	[05]
(i)	What is event bubbling?	
(ii)	Write RegEx pattern for validating strong password.	
(iii)	Which prompt box is used for taking input a value from user?	
(iv)	What is the role of client side scripting?	
(v)	What is the use of onAbort?	
(vi)	What is screen object?	
(vii)	Write a JavaScript code to check whether a given number is positive, negative or zero.	
Q - 2 (a)	What are the datatypes in JavaScript? Explain any two with suitable example.	[05]
Q - 2 (b)	Explain difference between client side scripting and server side scripting.	[05]

OR

Q - 2 (a)	Which are the conditional statement? Explain any one in brief.	[05]
Q - 2 (b)	What is user defined function? Exolain in brief with suitable example.	[05]
Q - 3 (a)	What is event handler? Explain any two event handler with suitable example.	[05]
Q - 3 (b)	Which are the operators in JavaScript? Explain the uses of any two type of operators with suitable example.	[05]

OR

Q - 3 (a)	Write a JavaScript code for basic and data validation. (Use registration form with atleast 5 different type of field).	[05]
Q - 3 (b)	List types of events. Explain any two mouse events in brief with suitable example.	[05]
Q - 4	Attempt any one/two.	[05]
(i)	Write a JavaScript code to design calucalator.	
(ii)	Write JavaScript code to find sum of natural number using recursion.	

SECTION – II

Q - 1	Answer the Following: (MCQ/Short Question/Fill in the Blanks)	[05]
(i)	What is instance?	
(ii)	JavaScript can be executed at_____.	
(iii)	State the use of filter ( ) in array.	
(iv)	What do you mean by validation?	
(v)	What is dynamic script?	
(vi)	What is user define function?	
(vii)	Write a syntax for an array.	
Q - 2 (a)	Explain OOPS concepts.	[05]
Q - 2 (b)	Explain constructor with example.	[05]

OR

Q - 2 (a)	What is inheritance explain with example.	[05]
Q - 2 (b)	Explain class and attribute with example.	[05]
Q - 3 (a)	List the properties of window object and explain any two.	[05]

Q - 3 (b)	Explain methods of array object.	[05]
	OR	
Q - 3 (a)	What is BOM explain in detail.	[05]
Q - 3 (b)	Give an example of dynamic scripting.	[05]
Q - 4	Attempt any one/two	[05]
(i)	What is array explain with example.	
(ii)	Differentiate for loop and each loop in array.	

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