

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI**  
**(MID SEMESTER EXAMINATION MO/2024)**

**CLASS: BTECH**  
**BRANCH: CSE**

**SEMESTER : VII**  
**SESSION : MO/2024**

**SUBJECT: CS435 FRONTEND DESIGN**

**TIME: 02 Hours**

**FULL MARKS: 25**

**INSTRUCTIONS:**

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
  2. Attempt all questions.
  3. The missing data, if any, may be assumed suitably.
  4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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		CO	BL
Q.1(a)	Can you run JavaScript in a file with a JS extension in your browser?	[2]	1 2
Q.1(b)	Write a program in JavaScript using regular expression for any word that begins with t and ends with e, with any number of characters in between.	[3]	2 4
Q.2(a)	Is Multithreading supported in JavaScript? Support your answer with valid reason.	[2]	2 2
Q.2(b)	Name five important features of JavaScript.	[3]	1 1
Q.3(a)	Draw the schematic diagram to show the structure of Browsers.	[2]	1 1
Q.3(b)	Write a program that prints the following pattern on the console. 1 1 2 1 2 3 1 2 3 4	[3]	2 2
Q.4(a)	var numberA = "50"; var numberB = "50"; console.log(typeof numberA); console.log(typeof numberB); console.log(numberA + numberB); console.log(Number(numberA) + Number(numberB)); What will be the output on both the console.log lines in bold.	[2]	5 4
Q.4(b)	You want to prevent others from extending an object. Name the method and write a program to implement it.	[3]	4 3
Q.5(a)	const constantOne = {}; const constantTwo = Object.create(constantOne); console.log(Object.getPrototypeOf(constantTwo) === constantOne); The output will be False/ True/Compile time Error or 0	[2]	5 2
Q.5(b)	Use suitable program code to differentiate bind(), call() and apply() methods	[3]	4 3

:20/09/2024:M