Mid Semester Examination 2023

Name of the Course: MCA   Semester: III

Name of the Paper: Full Stack Web Development   Paper Code: TMC-304

Time: 1½ Hours: Maximum Marks:50

Note:

i. Answer all questions by choosing any one question in sub questions

ii. Each question carries 10 marks.

Q1		(10 Marks)	CO2
(a)	What is the use of geolocation feature of HTML5? Write a program to display user's longitude and latitude coordinates on the web page.		
		OR	
(b)	What is MathML in HTML5? Print the following equations using HTML5 code: (i) $a^2-b^2/c^2-d^2=e/f$ (ii) $d/dx\ x^3+\iint x^2\ dx$		CO2
Q2		(10Marks)	
(a)	What do you mean by transform in CSS? Explain all the methods of 2d and 3d transform in detail. 3d Transform an element with perspective view into 45degrees and scale double from the original size, where the origin of the transformation is center- center.		CO2
		OR	
(b)	What do you mean by Gradient in CSS? Explain the types of gradients and apply the gradient methods on the <div> element?		CO2
Q3		(10 Marks)	
(a)	What do you understand by full stack development? Explain the scope and benefit of full stack development in detail.		CO1
		OR	
(b)	Explain the components of full stack development in detail with proper example.		CO1
Q4		(10 Marks)	CO1
(a)	What is HTTP protocol? Explain the http request response header with proper diagram.		
		OR	CO1

(b)	Write a program to demonstrate the use of XMLHTTPRequest (XHR) object for request response from server.	
Q 5 (a)	(10Marks)	CO1
	Who is full stack developer? Explain the layers of web development process in detail.	
	OR	
(b)	What is the difference between SVG and canvas? Write a program to create a circle using canvas and fill the combination of three colors (red, blue and green) inside circle.	CO2