Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA – SEMESTER – I • EXAMINATION – SUMMER 2018

Subject Code: 3610002   **Date: 22-May-2018**

Subject Name: Fundamentals of Web

Time: 02.30 pm to 5.00 pm   **Total Marks: 70**

Instructions:
1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1	**(a)**	Explain the terms: Protocol, Intranet, URL, DNS, Static Website, TLD, Server Farm.	**07**
	(b)	Explain the basic page structure with new HTML5 elements.	**07**
Q.2	**(a)**	With sample code, explain the importance and use of 'time' element and 'details' element.	**07**
	(b)	What is CSS3? Explain creation of responsive design with CSS3 Media Queries.	**07**
		OR	
	(b)	How can you make buttons with CSS gradients and multiple backgrounds?	**07**
Q.3	**(a)**	Explain HTML 4 input types.	**07**
	(b)	Explain DOM.	**07**
		OR	
Q.3	**(a)**	Explain creating of calendar control, color picker and slider (without JavaScript).	**07**
	(b)	How can an image be drawn on canvas? Also explain the cropping of image.	**07**
Q.4	**(a)**	What is canvas? Where is the point (0, 0) located on the canvas? Explain the importance and process of laying a grid on the canvas.	**07**
	(b)	What is use of <NoScript> tag? Explain inline, embedded and external JavaScript.	**07**
		OR	
Q.4	**(a)**	Explain any seven effects that can be used in conjunction with the canvas tools.	**07**
	(b)	Explain working of JavaScript in the Presentation, Validation and Asynchronous Layers. Explain four reasons of clients for not having JavaScript.	**07**
Q.5	**(a)**	List two benefits of new audio element. Explain the new audio attributes of HTML5.	**07**
	(b)	What is difference between WebSRT and WebVTT? Explain the different values you can use with 'kind' attribute of 'track' element while creating a video with subtitles and captions.	**07**
		OR	
Q.5	**(a)**	Why do video codecs deserve a special attention? Explain enabling of a video for all browsers.	**07**
	(b)	Explain the steps to be followed for adding a streaming radio in the browser.	**07**

****