

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**
