

Roll No.

Total Pages : 03

MCAQ/D-23

24033

ADVANCED WEB TECHNOLOGIES

MCA-20-35(ii)

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. **1** is compulsory. All questions carry equal marks.

(Compulsory Question)

1. (a) How is jQuery different from other JavaScript frameworks ?
(b) Why are reactive forms used in Angular 8 ?
(c) How to upload a file in AngularJS ?
(d) Describe the features of Node JS.
(e) What are inbound and outbound links ? **5×3=15**

Unit I

2. (a) Explain the events in jQuery.
(b) What is feature detection ? How is it considered a better approach than browser detection ? **15**

3. (a) What is the difference between `$(window).load()` and `$(document).ready()` function in jQuery ?
- (b) What are the various Ajax functions available in jQuery ? **15**

Unit II

4. (a) Explain the various types of models in AngularJs.
- (b) How is bootstrap different from Angular and how to use Bootstrap in AngularJS ? **15**
5. (a) How does single-page application work in Angular ? Explain.
- (b) How to generate E2E folder in Angular ? **15**

Unit III

6. (a) Describe the traditional server model. How to handle the http request in Node JS ?
- (b) What is modularization in node JS ? **15**
7. (a) What is event and event emitter in node JS ? Explain.
- (b) What is debugging in application ? Which tools can be used to Debug Node.js application ? **15**

Unit IV

8. (a) How to optimize the entire website ? Explain.
- (b) What are the most important aspects of content for SEO ? **15**
9. Write short notes on the following : **15**
 - (i) Doorway pages
 - (ii) Backlinks
 - (iii) CTR
 - (iv) Residence time
 - (v) Rigid layout.