

Sl No of QP : 3675

Unique paper code

: 6332492402

Name of the course

: **B.Voc (Web Designing)**

Name of the paper

: Full Stack Web Development - 1

Semester

: IV

Time: 3 Hours

Maximum Marks: 90

(For Admissions of 2019 onwards)

Instructions for Candidates:

- (a) Write your Roll No. on the top immediately on receipt of this question paper.
- (b) Question No. 1 is compulsory in **Section-A**.
- (c) Attempt any **four** questions from **Section-B**.
- (d) Parts of a question should be attempted together.

		Section A	30
Q1.	(a)	Differentiate between jquery and javascript? Which one is faster in terms of performance?	3
	(b)	Is JQuery a Javascript framework or a Javascript library? write with an explanation?	3
	(c)	Write a jquery Program for following problem : When a click event fires on a <h> element; fade the current <h> element.	3
	(d)	Write an Angular JS Program to create a service for finding the factorial of a given number?	3
	(e)	Write an Angular JS Program for ng-copy and ng-paste events?	3
	(f)	What are the different types of directives in AngularJS?	3
	(g)	What is the difference between InsertOne() and InsertMany() functions in MongoDB database?	3
	(h)	Explain the Challenges for Data Modelling in MongoDB?	3
	(i)	Differentiate between JSON and BSON Object Notations?	3
	(j)	An Application needs to be built which is based on the Google Data Analytics. Which type of database is more suitable (Mysql/ MongoDB)? Explain?	3
		Section B	
Q2.	(a)	Create a div tag and it should display Welcome message (by using JQuery) 1. Create two div tags and assign yellow as background colour to both of them by using JQuery. 2. Display and hide message shown in the div tag on click of the buttons. 3. Display and hide messages by using a single button . 4. Create a div tag and on click of a button it should display your name. (Hint : use jquery selectors)	12
	(b)	What do you mean by JQuery Ajax?	3

Q3.	(a)	Write AngularJS CLI Commands for following operations : i) To Create a new Application 'myApp' in AngularJS? ii) To Create a new Component 'details' in AngularJS? iii) To Create a new Class in AngularJS? iv) To Create a new directive in AngularJS?	8
	(b)	Differentiate between Event Binding and Property binding in the architecture of AngularJS with Example?	7
Q4.	(a)	Write an Angular Script to print the fibonacci series up to a given number N?	7
	(b)	How can you integrate AngularJS with HTML?	8
Q5.	(a)	Given below Student Collection : <pre> { "Name" : "Ronak", "email" : "ronak@gmail.com", "marks" : { "english" : "78", "maths" : "81", "hindi" : "92" } "status" : "pass" "class" : "4" } </pre> Write below MongoDB queries based on the collection with explanation: (1) Write a Query to display the names of students whose marks in english is greater than 80. (2) Write a Query to display the names of students who are in 5 class and "pass" all the exams.	8
	(b)	Explain why CAP theorem can be used to distinguish between Relational databases systems and Non-relational database systems.	7
Q6.	(a)	eDesert is an online application which allows user to login and search for a desert, sort the desert list based on rating or prices, select the items, add them to cart and place order by doing payment. Design MongoDB database to cover above requirements with collections and structure of documents?	8
	(b)	In respect of eDesert Online Application mentioned above, Create Angular Forms, Angular Components and Angular Modules regarding the above application?	7
Q7.	(a)	Write a Short Note on CRUD operations in MongoDB?	5
	(b)	Write a Short Note on ng-if and ng-show directives in AngularJS?	5
	(c)	What a Short Note on DOM (Document Object Model)?	5