

T.E / Sem V / 'C' scheme / IT / Web. X.O

(3 hrs.)



Maximum Marks = 80

1. Question No. 1 is compulsory and solve any THREE questions from remaining questions
2. Assume suitable data if necessary
3. Draw clean and neat diagrams

Q1. Attempt any four

Marks

- a. Explain Semantic Web Stack 5
- b. Explain an arrow function in TypeScript 5
- c. What is Routing in AngularJS 5
- d. Discuss default database in MongoDB: local, admin, and config 5
- e. Discuss technologies AJAX works with to create interactive web pages 5

Q2. a. Define Clickstream Analysis and state its applications.

10

b. Explain Modules in TypeScript with example

10

Q3. a. Explain AngularJS ng-app, ng-init, ng-model directive with examples

10

b. Explain Accessing and Manipulating Databases commands in MongoDB

10

Q4. a. Explain with example concept of Flask Templates

10

b. With diagram explain working of AJAX

10

Q5. a. What are the expressions in AngularJS?

10

b. Explain the concept of Collections and Documents in MongoDB with examples

10

Q6. a. What is Flask URL Building?

10

b. Short note on Angular JS Data Binding

10

(3 hrs.)

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NB:

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Q1.	Attempt any 4	Marks
a.	Explain Multilevel Inheritance in Typescript with suitable example	5
b.	Illustrate AngularJS custom directives with an example	5
c.	Explain Characteristics of Semantic Web	5
d.	What are the features of Python Flask?	5
e.	Differentiate between CMS and Framework	5
Q2.	a. Explain controllers in Angular JS with example	10
	b. Explain MongoDB Data Types along with syntax.	10
Q3.	a. Compare and contrast Web 1.0, Web 2.0 and Web 3.0	10
	b. Explain Routing using ng-Route, ng-Repeat, ng-style, ng-view. With suitable example	10
Q4.	a. Define RIA and explain characteristics of RIA	10
	b. Differentiate Var v/s Let. In addition, Explain function overloading with suitable examples.	10
Q5.	a. Explain MongoDB CRUD Operations with an example.	10
	b. How to set access and delete cookies in Python Flask?	10
Q6.	a. Explain features and Working of AJAX	10
	b. Explain AngularJS \$http service in detail with its get() and post() methods.	10

09/12/22

Sem / VI / I.T / C-scheme / R-19-20 / Web X.O

(Time : 3 hrs.)

Maximum Marks = 80

4

NB:

1. Question No. 1 is compulsory and solve any THREE questions from remaining questions.
2. Assume suitable data if necessary.
3. Draw clean and neat diagrams.

Q1.	Attempt (any four)	Marks
a.	Explain Semantic Web Stack	5
b.	Typescript v/s Javascript	5
c.	Explain AngularJS expressions with syntax	5
d.	Explain features of MongoDB	5
e.	What are the features of Python Flask?	5
Q2.	a. Explain Evolution of Web	10
	b. Explain AngularJS dependency injection.	10
Q3.	a. Explain Accessing and Manipulating Databases commands in MongoDB	10
	b. How to set, access and delete cookies in Python Flask ?	10
Q4.	a. Define RIA and explain characteristics of RIA	10
	b. Design a registration Form and perform Validation of fields.	10
Q5.	a. Explain Sharding	10
	b. Explain Angular JS Data Binding	10
Q6.	a. Explain Routing using ng-Route, ng-Repeat, ng-style, ng-view. With suitable example	10
	b. Explain REST API in detail.	10

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	In order to identify the users, web analytics tools need to report on?
Option A:	clickstream
Option B:	user sessions
Option C:	Unique users
Option D:	Page Views
2.	Which of the following is the valid arrow function?
Option A:	let sum = (x: number, y: number) => x+y;
Option B:	let sum() : (x: number, y: number) : number
Option C:	let sum = (x: number, y: number) => return x+y;
Option D:	let sum(x: number, y: number) => x+y;
3.	Which of the following is the correct syntax for writing AngularJS expressions?
Option A:	(expression)
Option B:	{{expression}}
Option C:	{{{expression}}}
Option D:	[expression]
4.	Which of the following directive is used to bind the application data to the HTML view in AngularJS?
Option A:	ng-app directive
Option B:	ng-model directive
Option C:	ng-bind directive
Option D:	ng-init directive
5.	— is a MongoDB method to find any document already inserted into the collection.
Option A:	findItem
Option B:	findOne
Option C:	findDocument
Option D:	findCollection
6.	After starting the mongo shell, your session will use the ---- database by default.
Option A:	mongo
Option B:	master
Option C:	test
Option D:	primary
7.	The app.run function in Flask does NOT have this parameter.
Option A:	host
Option B:	port
Option C:	debug
Option D:	checks
8.	Which of the following internet standard not used by AJAX
Option A:	XML

Option B:	CSS
Option C:	XMLHttpRequest Object
Option D:	JSON

9.

```

db.createUser(
{
  user: "user1",
  pwd: "password",
  roles: [{role: "userAdminAnyDatabase",
  db: "admin"}]
})

```

For given code choose write interpretation-

- Option A:
1. Specifies user name and password.
 2. Specifies user role as 'user1'.
 3. Writes information to the 'admin' database
- Option B:
1. Specifies user name and password.
 2. Specifies user role as an admin.
 3. Writes information to the 'admin' database
- Option C:
1. Specifies user name and password.
 2. Specifies user role as an admin.
 3. Writes information to the database
- Option D:
1. Specifies user name and password.
 2. Specifies user role as an admin.
 3. Writes information to the 'local' database

10.

update role of "MSD" as "C and WK" from emp collection

- Option A:
- ```
>db.empl.update({name:"MSD"},{$set:{role:"c and WK"}})
```
- Option B:
- ```
>db.emp.update({name:"MSD"},{$set:{role:"c and WK"}})
```
- Option C:
- ```
>db.emp.update({name:"MSD"},{$set:{role:"c" role:" WK"}})
```
- Option D:
- ```
>db.empl.update({name:"MSD"},{set:{role:"c and WK"}})
```

Q2 (20 Marks)	Solve any Two Questions out of Three	10 marks each
A	List and Explain factors for Measuring the success of a E-commerce website	
B	Compare and contrast Web 1.0, Web 2.0 and Web 3.0.	
C	Write code in typescript to explain concept of Inheritance.	

Q3. (20 Marks)	Solve any Two Questions out of Three	10 marks each
A	Illustrate the use of expressions in AngularJS with suitable example	
B	Explain Routing using ng-Route, ng-Repeat, ng-style, ng-view with example	
C	List and explain mongo shell commands	

Q4. (20 Marks)	Solve any Two Questions out of Three	10 marks each
A	Write Flask script to display "Welcome to Flask framework"	
B	Explain dynamic url building in flask	
C	Explain how AJAX works with a diagram? Describe 4 standards used by	