

**University of Mumbai**  
**Examinations Summer 2022**

Time: 2 hour 30 minutes

Max. Marks: 80

<b>Q1.</b>	<b>Choose the correct option for following questions. All the Questions are compulsory and carry equal marks</b>
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:	fineOne
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.	<pre>db.createUser(   {     user: "user1",     pwd: "password",     roles: [{role: "userAdminAnyDatabase",     db: "admin"}]   })</pre> <p>For given code choose write interpretation-</p>
Option A:	<ol style="list-style-type: none"> <li>1. Specifies user name and password.</li> <li>2. Specifies user role as 'user1'.</li> <li>3. Writes information to the 'admin' database</li> </ol>
Option B:	<ol style="list-style-type: none"> <li>1. Specifies user name and password.</li> <li>2. Specifies user role as an admin.</li> <li>3. Writes information to the 'admin' database</li> </ol>
Option C:	<ol style="list-style-type: none"> <li>1. Specifies user name and password.</li> <li>2. Specifies user role as an admin.</li> <li>3. Writes information to the database</li> </ol>
Option D:	<ol style="list-style-type: none"> <li>1. Specifies user name and password.</li> <li>2. Specifies user role as an admin.</li> <li>3. Writes information to the 'local' database</li> </ol>
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"}})

<b>Q2</b> <b>(20 Marks)</b>	<b>Solve any Two Questions out of Three</b>	<b>10 marks each</b>
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.	

<b>Q3.</b> <b>(20 Marks)</b>	<b>Solve any Two Questions out of Three</b>	<b>10 marks each</b>
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	

<b>Q4.</b> <b>(20 Marks)</b>	<b>Solve any Two Questions out of Three</b>	<b>10 marks each</b>
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 AJAX.	