




**KEEPING MOBILE PHONE/SMART WATCH, EVEN IN 'OFF' POSITION, IS EXAM MALPRACTICE**

**Answer ALL Questions**

**(10 X 10 = 100 Marks)**

Write code for the design of course web page using HTML and CSS similar to the one shown below.

		<b>MIS 324</b>	
		Introduction to Web Development	
by <your name goes here>			
An ordered list of chapters			
<ol style="list-style-type: none"> <li>Chapter A</li> <li>Chapter B</li> <li>Chapter C</li> <li>Chapter D</li> </ol>			
An unordered list of topics		<b>New Development and Upcoming Events</b>	
<ul style="list-style-type: none"> <li>HTML</li> <li>CSS</li> <li>ASP.NET 2.0</li> <li>CA</li> </ul>		<p>The quick brown fox jumped over the lazy dog. The quick brown fox jumped over the lazy dog. The quick brown fox jumped over the lazy dog. The quick brown fox jumped over the lazy dog. The quick brown fox jumped over the lazy dog. The quick brown fox jumped over the lazy dog.</p>	
		<p>The quick brown fox jumped over the lazy dog. The quick brown fox jumped over the lazy dog.</p>	

Write a JQuery code, so that when the 'Run Effect' button is clicked, the displayed content will be toggled between show and hide effects. Also, there are some extra effects as listed within the drop down box. The contents should be modified according to the option selected in the drop down box and button click. The options are slide, highlight and size.

### Effect

Etiam libero neque, luctus a,  
eleifend nec, semper at, lorem  
Sed pede. Nulla lorem metus,  
adipiscing ut, luctus sed,  
hendrerit vitae, mi



Slide ▼ Run Effect

3/4) Mention what Model-View-Controller represents in an MVC application of your choice with proper illustration. [3]

6) Using Angular JS, add the names that are entered in textbox to the list when the add button is clicked and clear the textbox once the name is added to list. [7]

<ul style="list-style-type: none"> <li>Meenal</li> <li>Palak</li> <li>Andrea</li> </ul> <p>Parul <input type="button" value="add"/></p>	<ul style="list-style-type: none"> <li>Meenal</li> <li>Palak</li> <li>Andrea</li> <li>Parul</li> </ul> <p><input type="button" value="add"/></p>
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4. ✓ a) Write short note on MEAN STACK [5]

b) Elucidate the functional requirements for the REST API, and how these operations can be mapped to HTTP routes and verbs. [5]

5. ✓ Design a web form for Course Registration which contains the elements such as register no, name of the student, student email id, temporary address, permanent address, name of the programme, name of the course, title of the course, slot, name of the faculty, mobile number. Write code to validate the form. Conditions are as follows:

- No fields should be empty.
- Name should contain only alphabetic characters
- Mobile number field should contain only 10 digits
- Email validation
- Provide a checkbox saying "Permanent address is same as temporary address". If checked, the value of permanent address should be added automatically from temporary address. And should be in disabled mode

6. ✓ Create a web application to handle HTTP requests using Express.js to handle different types of HTTP request namely get, post and update. HTML form to submit POST request consists of two text boxes for entering the first and last name and a submit button. The response page for POST request should contain the statement "First name Last name Submitted Successfully!". Eg: James Bond Submitted Successfully!. In update operation modifies the first name as 'Tom Bond'.

7. ✓ Model the database for an e-commerce application using MongoDB. Create a product catalog with the product schema of: product name, description, manufacturer details(model\_no, release\_date), shipping details, quantity, pricing. Perform the following operations:

- Insert into a cart of products the customer intends to purchase.
- Remove products from the cart.
- Abandon a cart and the application must return items in the cart to inventory.

8. ✓ Discuss the Express and Meteor JS framework and explain how to handle cookie information using any one of the given framework?

9. ✓ Elucidate responsive web page design. List out 5 bad examples of web design. Provide your own views of improving design approaches focusing on contemporary issues in web design.

10. ✓ Design a web application using node.js and MongoDB. Consider a database 'EmployeeDB', which contains all the employee-related documents. Each document has an object id, Employee name, and employee id to define the values of the document. Write codes for the following functionalities:

- To search an employee using his/her ID. If the employee exists, it will show his/her data in a form, otherwise a pop message should be displayed stating the employee does not exist.
- To delete an employee, by specifying his/her ID.
- To insert a new employee using a form. By default, the form is hidden, by pressing a button the form should appear. If the same button is clicked the form should disappear. Every time the form is shown, it should be empty. The form should allow specifying all data of an employee.

