



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

Answer ALL Questions

(10 X 10 = 100 Marks)

1. Write the HTML code for designing the following HTML Form with elements:

First Name:	<input type="text"/>
Last Name:	<input type="text"/>
E-Mail Address:	<input type="text"/>
Phone Number:	<input type="text"/>
Resident State:	<input type="text" value="NJ"/>
Age Group:	
<input checked="" type="radio"/> 0-20 <input type="radio"/> 20-40 <input type="radio"/> 41-60 <input type="radio"/> Over 60	
Membership:	
<input checked="" type="checkbox"/> AAA <input type="checkbox"/> Costco <input type="checkbox"/> IEEE <input type="checkbox"/> ACM	
Comments:	
<input type="text"/>	
<input type="button" value="Register"/>	<input type="button" value="Start Over"/>

2. Write a webpage code for the following layout using an external style sheet named "external.css" and provide some styles for h2, p and body tags. Write the code for an HTML file named "welcome.html" and link the external style sheet. Include an internal style sheet for body tags. Include a <p> tags with inline style sheet.



The Colyton Teddy Bears are only £9.99 including P&P

COLYTON TEDDY BEARS
The Teddy Bear's Knitted Jerseys
Come in three colours
Yellow, Red and Black

The Colyton Teddy Bears are hygienic, safe and cuddly

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3. Write the JavaScript validation for the HTML form of Q.No. 1 with the following conditions:
- All the fields are mandatory, Check whether all the fields are entered otherwise display an alert message to the user.
 - First Name and Last Name should not exceed 30 characters and can be only alphabets.

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ON TELEGRAM TO JOIN

- iii. Phone should not exceed 10 digits and can be only digits.
 - iv. Age and Resident state should be selected or checked.
 - v. Validate for valid Email address.
4. Write the JQuery code to add behavior to the following HTML web page. The page is similar to the number guessing game. The following screenshots show the initial state and state after several guesses have been made.

Guessing Game

Your past guesses:

Guessing Game

 Too low!

Your past guesses:

- 50
- 25
- 37

Guessing Game

 You got it right in 6 tries!

Your past guesses:

- 50
- 25
- 37
- 43
- 40
- 42

When the page loads, your code should randomly choose a number from 1-100 inclusive.

- i. When the user types a number into the number text field and then clicks the make guess button the game will compare the user's guess to your randomly chosen number, and report whether it was "Too high!", "Too low!", or correct.
 - ii. The information will be shown as text in the result span. If the guess is correct, you should show a message such as, "You got it right in 6 tries!" (You can still say "tries" even if it takes 1 guess.) Once the user guesses correctly, disable the button so that no more guesses can be made.
 - iii. The game will also show a history of all guesses made as a bulleted list. Each guess number is added as a bullet to the end of the list. If the guess was too low, this bullet should use the low CSS class, which displays it in blue italic. If it is too high, the bullet should use the high CSS class, which is red and bold. If it is correct, it should be displayed without any class.
5. Write the AngularJS code for developing an application that displays the Shopping cart. It should calculate the amount based on the quantity given by the user. When the user clicks the remove button, the particular item should get removed from the cart.

Quantity	Item	Order Code	Unit Price	Total	Remove
2	My Product (HSD-KSE)	HSD-KSE	\$9 99	\$19 98	Remove
1	My Product (KLS-IEH)	KLS-IEH	\$9 99	\$9 99	Remove
4	My Product (ELS-OWK)	ELS-OWK	\$9 99	\$39 96	Remove
3	My Product (KWL-JFE)	KWL-JFE	\$9 99	\$29 97	Remove

6. Write a JavaScript code so that when a user clicks the "Search" button, the definition of the word in the text box is displayed underneath. Fetch the JSON data for definition using AJAX and the web application to insert two new paragraphs into the page's result area:
- i. One that contains the definition text.
 - ii. One that contains the example usage of the word. Make this paragraph show up in a special style by giving it a class attribute of "example".

7. Discuss in detail about the HTTP Request and Response model and its methods.
8. Write the necessary code to build a RESTful web application using nodejs with MongoDB for searching for restaurant collections for online order. Create a mongo dB database for necessary fields such as restaurant_id, restaurant_name, address, city, cuisine/restaurant type and rating score for each restaurant. Assume an online form for searching restaurant collections is created with the above database fields as form elements.

The web application should

- i. Display the fields restaurant_id, restaurant_name, address, city, cuisine/restaurant type and rating score for each restaurant in the restaurant collection.
 - ii. Find the restaurant Id, name, city and cuisine for those restaurants which achieved a rating score which is not more than 10.
9. a) Enumerate the significance of publish and subscribe methods in Meteor JS. [5]
b) Illustrate with an example the types of templates in Meteor JS. [5]
10. Describe the procedure for developing single-page web application and hosting it in the Microsoft Azure or Heroku platform.

