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(vii) Type Script is ______ of Java Script

(a) sub set

(b) super set

(c) inherited from

(d) none of the above.

- (viii) What is Model in MVC?
 - (a) Model represents server side data
 - (b) Model represents data stored in database
 - (c) Model is the lowest level of the pattern responsible for maintaining data
 - (d) None of the above.
- (ix) Which of the following directive is used to initialize an angular app?
 - (a) ng-model

(b) ng-app

(c) ng-controller

- (d) None of the above.
- (x) AngularJS expressions are written using.
 - (a) double braces like {{ expression}}
 - (b) single braces like {expression}
 - (c) small bracket like (expression)
 - (d) capital bracket like [expression].

Group - B

- 2. (a) What is Document Object Model? How it differs with DHTML, explain with example.
 - b) What is Lambda function? When it is used, explain with example.

$$(2+5)+(2+3)=12$$

3. (a) Illustrate the difference with an example between 'let' and 'const'. Explain with example, the concept of variable Hoisting.

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(b) Write the output of the following:

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```
<script>
function notifyAll(fnSms, fnEmail) {
  console.log('starting notification process');
  fnSms();
  fnEmail();
}
notifyAll(function() {
  console.log("Sms send ..");
},
  function() {
  console.log("email send ..");
});
  console.log("End of script");
```

B.TECH/IT/7TH SEM/INFO 4101/2017

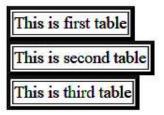
//executes last or blocked by other methods
</script>

(c) Write a program to develop a simple calculator which will ta expression as an input in text box, compute the expression and d the result.(use java script and css).

(3+3)+3+3

Group - C

4. (a) Write a program in jquery to get the following output.



(b) What is the difference between jQuery.get() and jQuery.ajax()? We the proper way in jQuery to remove an element from the DOM leads its Promise is resolved?

$$6 + (3 + 3)$$

- 5. (a) What are the closures in javascript? Explain with example.
 - (b) With an example explain javascript map method. What is an function in java script?

$$6 + (3 + 3)$$

Group - D

- 6. (a) What is typescript? Explain the benefits of typescript.
 - (b) Write a typescript code to show the operation of Interface and Ol What are the modules available in typescript? Discuss the module with example.

$$(2+3)+(2+2+3)$$

- 7. (a) Discuss the features of Node.js.
 - (b) Define callback in respect of Node.js. Give an example of event of programming with Event Emitter class in Node.js.

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Group - E

- 8. (a) Describe the core features of AngularJS.
 - (b) State advantages and disadvantages of AngularJS. Describe MVC architecture with suitable diagram.

$$4 + (4 + 4) = 12$$

- 9. (a) State the directives of AngularJS. Give an example to showcase all the directives of AngularJS.
 - Create an app with the following components:

 A template with two buttons and a simple message, model consisting of a string named spice and controller with two functions that set the value of spice.

$$(2+4)+6=12$$

B.TECH/IT/7TH SEM/INFO 4101/2017

INTERNET TECHNOLOGY (INFO 4101)

Time Allotted: 3 hrs Full Marks: 70

Figures out of the right margin indicate full marks.

Candidates are required to answer Group A and <u>any 5 (five)</u> from Group B to E, taking <u>at least one</u> from each group.

Candidates are required to give answer in their own words as far as practicable.

Group - A (Multiple Choice Type Questions)

(Multiple Choice Type Questions)									
L.	Choo	ose the correct alternative for		10 × 1 = 10					
	(i)	JavaScript objects can be created with the function. (a) object()		new keyword, and with the (b) object.create()					
		(c) javaScript.object()		(d) create.ob					
	(ii)	Which built-in method re object of the first occurrence (a) getIndex() (c) indexOf()		the index within the calling String e specified value? (b) location() (d) None of the above.					
	(iii)	What does the term DOM st (a) Document Object Model (c) Discrete Object Model		or? (b) Dynamic Object Model (d) None of the above.					
	(iv)	Which of the following full element from an array and (a) pop() (b)pus		oves the last (d) map()					
	(v)	 (v) jQuery code to set the background color of all span elements to blue (a) \$("span").style("background-color","blue"); (b) \$("span").manipulate("background-color","blue"); (c) \$("span").css("background-color","blue"); (d) \$("span").layout("background-color","blue"); 							
	(vi)	Which of the following is true (a) Writable stream is used (b) Output of readable stream (c) Both of the above (d) None of the above.	for write opera	tion	stream				