Question Paper



MANIPAL UNIVERSITY

SCHOOL OF INFORMATION SCIENCES (SOIS) SECOND SEMESTER MASTER OF ENGINEERING - ME (MEDICAL SOFTWARE / EMBEDDED SYSTEMS / EMBEDDED & WIRELESS TECHNOLOGY / COMPUTING **TECHNOLOGIES & VIRTUALIZATION)**

DEGREE EXAMINATION - APRIL / MAY 2017 Saturday, 22, 2017 Time: 10:00 AM - 1:00 PM

Web Application Development

Marks: 100 Duration: 180 mins.

Answer	all the questions.	
1)	Explain first three Normalization forms with examples	(10)
2)	What will the code below output to the console and why?	(10)
	var arr1 = "john".split(");	
	var arr2 = arr1.reverse();	
	var arr3 = "jones".split('');	
	arr2.push(arr3);	
	console.log("array 1: length=" + arr1.length +	
	" last=" + arr1.slice(-1));	
	<pre>console.log("array 2: length=" + arr2.length + " last=" + arr2.slice(-1));</pre>	
3)	What is a stored Procedure? What are its	(10)
	advantages? Write a stored procedure to add a new student to a student table.	
4)	Two words are said to be Anagrams of each other if they share the same set of letters to form the respective words. Write a program in	(10)

- C# to determine whether two strings are anagrams of each other.
- Write a note on AJAX and give an example on 5) (10)how to make an AJAX call to access a web method.
- 6) How does the relationship exist between the (10)

	node, child and siblings in node-tree? Write a program to change an HTML element using DOM (Document Object Model)?	
7)	What is exception handling and explain the same using an example? Write a program in C# using the try catch block.	(10)
8)	Write a web method to verify if the user trying to log in is a valid user and display a suitable message for Successful and Unsuccessful attempt.	(10)
9)	Briefly explain three basic platforms of Webservices.	(10)
10)	Explain the elements of Service Oriented Architecture with a diagram?	(10)