

MANIPAL UNIVERSITY
SCHOOL OF INFORMATION SCIENCES

SECOND SEMESTER MASTER OF ENGINEERING – ME (MEDICAL SOFTWARE /
EMBEDDED SYSTEMS)
DEGREE EXAMINATION – APRIL / MAY 2016

SUBJECT: MMS 618.11 (ELECTIVE 2) / ESD 616.8 (ELECTIVE 2) – WEB APPLICATION
DEVELOPMENT

Friday, May 6, 2016

Time: 10.00 – 13.00 Hrs.

Max. Marks: 100

1. Explain first three Normalization forms with examples (10 marks)
2. Explain INSERT, DELETE and UPDATE SQL queries with an example. (4+3+3 = 10 marks)
3. What are wildcard characters? Explain how they are used in pattern matching (10 marks)
4. Explain onSubmit and onReset events. Write an HTML program to automatically refresh the contents of a page after every 5 seconds, without any user interaction. (4+6 = 10 marks)
5. Create a photo gallery using javascript. Create two buttons view next and previous image. (10 marks)
6. How does the relationship exist between the node, child and siblings in node-tree? Write a program to change an HTML element using DOM (Document Object Model)? (10 marks)
7. Write a program in AJAX to demonstrate callback function? (10 marks)
8. Write a web service to insert and display data into database. (10 marks)
9. Briefly explain three basic platforms of Webservices. (10 marks)
10. Explain the elements of Service Oriented Architecture with a diagram? (10 marks)
