



Name :

Roll No. :

Invigilator's Signature :

CS / M.TECH(IT-SE) / SEM-3 / MSE-301 / 2011-12

2011

WEB TECHNOLOGY

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

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

Answer any *five* questions.

1. a) Why is HTML known as Hypertext Markup Language ? 2
- b) What are the advantages of Java Script over HTML ? 3
- c) Write a Java Script code that checks the elements entered in a text field and if value entered in lower case convert it to upper case. 4
- d) Discuss about the HTML form tag. 3
- e) Is there any way to create a large number of text fields without dealing with different names for all of them ? 2



2. a) What happens if I define on key down and on key press ? 2
- b) Write a Java Script code that will check the entered e-mail id containing '@' or not. 5
- c) Discuss about the window and history object of DOM. 4
- d) Discuss about script tag of Java Script. 3
3. a) Discuss about 2-tier and 3-tier web architecture. 3
- b) What is the difference between web server and application server ? 2
- c) Discuss about HTTP request and response format. 3
- d) Why is the initialization step required in servlet life cycle. 2
- e) Write a servlet program that will keep track of how many times a user access it. 4
4. a) Why session tracking is required in development of a web application ? Write a program that can remember the user name and password that you use for login so that you need not to enter (type) again from the next time. 2 + 6



- b) What is the difference between request dispatching & send redirect ? 2
- c) What are the different servlet parameter and attributes ? 4
5. a) What do you mean by JDBC driver ? Discuss 4-type drivers. 1 + 4
- b) Why Java does not support multiple inheritance ? 2
- c) What do you mean by exception handling ? 2
- d) What are the advantages and disadvantages of JSP ? 5
6. a) Discuss about JSP directives. 2
- b) What is the difference between jsp-include and directive include ? 3
- c) Discuss about JSP life cycle. 4
- d) Write a JSP code to show the use of <jsp : use Bean> 4
- e) What are the life cycle methods of JSP ? 1
7. a) What is the use of XML ? 3
- b) Write AJAX code that displays the name of students in tables → students names are stored in an XML file. 7
- c) Discuss about inter-thread communication with Java code. 4

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8. Write short notes on any *four* :

- a) Servlet life cycle
 - b) DOM
 - c) XML – Parsing
 - d) Deployment Descriptor
 - e) -jsp Service (..)
 - f) Java Script Array
 - g) SQL injection.
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