4. Explain the following:

   a) XML Namespace

   b) Valid XML and well-formed XML

   c) Document Type Definition 3+3+4

5. Design a library registration page for a new user using HTML by using all form controls. What is the purpose of action and method attribute of form tag? 6+4

6. Explain Document Object Model with a suitable example. Explain the SOAP web service in AJAX 5+5

7. Explain the following with suitable examples:

   a) Anchor Tag and its attributes

   b) Ordered list and its attributes

   c) Image tag and its attributes

   d) Class and id selectors of CSS

   e) Colour Codes 2+2+2+2+2

8. What is a servlet? Explain about Lifecycle of a Servlet with neat diagram. 2+8

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M. Tech Odd Semester Examination, February, 2023

Computer Science & Engineering

(3rd Semester)

Course No.: MCSE-303E

(Web and Internet Technology)

Full Marks: 50

Pass Marks: 25

Time: 2 hours

Note:
1. Attempt any five questions.
2. Begin each answer in a new page.
3. Answer parts of a question at a place.
4. Assume reasonable data wherever required.
5. The figures in the right margin indicate full marks for the question.
6. All the mathematical symbols and abbreviations have their usual meanings.

1. Explain W3C validator. With the neat block diagram explain the CSS Box Model. 2+8

2. What is the need of client-side scripting in web technologies? Write a Java Script code to convert temperature from Celsius to Fahrenheit and viceversa. 2+8

3. Design the static web page that display the following using HTML5 and CSS 10

Invoice

Item / Desc.	Qty.	@	Price
Paperclips (Box)	100	1.15	115.00
Paper (Case)	10	45.99	459.90
Wastepaper Baskets	2	17.99	35.98
Subtotal			610.88
Tax		7%	42.76
Total			653.64