Undergraduate FOURTH SEMESTER EXAMINATIONS, 2022

Subject:COMPUTER SCIENCE Course ID: 41525
Course Title: HTML Programming (Practical)

Full Marks: 15 **Time: 2h**

Perform any one experiment:

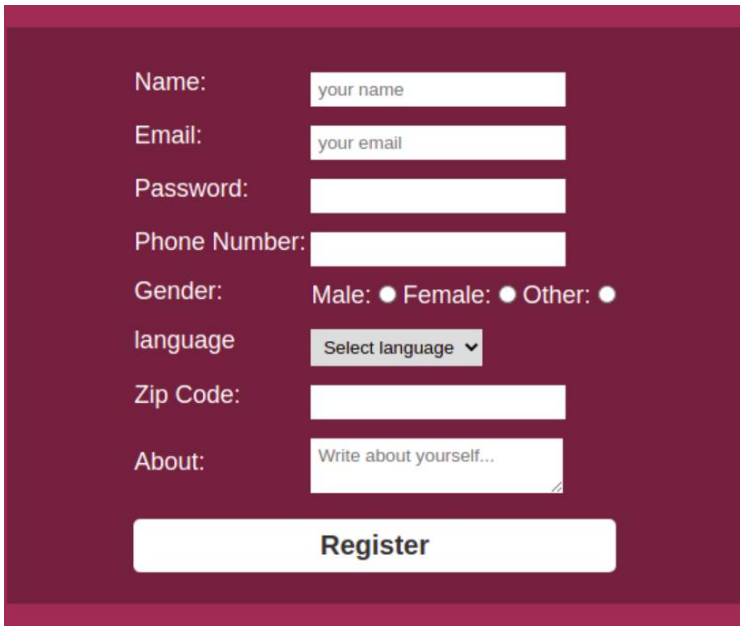
1. Create HTML document with following formatting – Bold, Italics, Underline, Colors, Headings, Title, Background, Paragraph, Line Brakes, Horizontal Line, marquee text.
2. Create HTML document with Ordered and Unordered lists
3. Create HTML document withInserting Images and background image.
4. Create HTML document with hyperlink.
5. Create HTML document with Table:

<table>
<tr><td></td><td colspan="2"></td></tr>
<tr><td rowspan="2"></td><td></td><td></td></tr>
<tr><td></td><td></td></tr>
<tr><td></td><td colspan="2"></td></tr>
</table>

6. Create an HTML Page with Red background with a message “Warning” in large size blinking and add scrolling text “ Read the message” bellow it.
7. Create an HTML document (having two frames) which will appear as follows:

<table>
<tr><td>About
Department 1
Department 2
Department 3</td><td>This Frame would show the contents According to the link clicked on the left frame</td></tr>
</table>

8. Write a HTML code to generate following output.



Undergraduate FOURTH SEMESTER EXAMINATIONS, 2022

Subject:COMPUTER SCIENCE Course ID: 41525
Course Title: XML Programming (Practical)

Full Marks: 15 **Time: 2h**

Perform any one experiment:

1. Create a well-formed XML document containing details of a car like: id, company name, model, engine and mileage.

2. Create a XML document which contains details of cars and display the same as a table using XSLT.

3. Draw the tree structure of the XPath data model for the following document:
<restaurants>
<restaurant name=”La Pasteria”>
<address>13 Alonisou Street, Patras, 261 35</address>
<cuisine>Italian</cuisine>
<phoneno>2610325833</phoneno>
</restaurant>
<restaurant name=”Kalamarakia”>
<address>21 Poseidonos Street, Patras, 264 45</address>
<cuisine>Greek</cuisine>
<phoneno>2610428066</phoneno>

</restaurant>
</restaurants>

4. Design a DTD for an XML database of restaurants. This should be written to validate the small XML
example above, and also the longer document restaurants.xml available from the course web page.
5. Write XPath expressions to return the following lists of text strings from any XML document that is
valid with respect to the DTD you wrote for Example 2.
(a) All punctuation marks.
(b) All substantives. The pos tag for substantives is “SUBST”.
(c) All words appearing in sentences that contain an exclamation mark “!”.

6. Analyse the following XML file. Draw a tree diagram and correct errors in design.

```
<?xml version='1.0' encoding='ISO-8859-1' standalone='yes'?>
<phonebook>
<company>
<cname>Microsoft</cname>
<exchange>09-999000</exchange>
</company>
<president>Bill Gates
<extension>09-9990011</president></extension>
<secretary>Katharine Finch <extension>09-9990012</secretary></extension>
<company>
<cname>Oracle</cname>
<exchange>09-888000</exchange>
</company>
<president>Larry Ellison
<extension>09-8880011</president></extension>
<secretary>Helen Calhoun
<extension>09-8880012</secretary></extension>
</phonebook>
```

7. design an address book in XML. For each entry of the address book, one wants to store the following information:

The person nam

Home address

Telephone number (can be more just one)

E-mail address (it can be more e-mail addresses)

Birth data

8. Create a content-based XML DTD for a simple email message