U.G. 4th Semester Examination - 2021
COMPUTER SCIENCE
[PROGRAMME]
Skill Enhancement Course(SEC)
Course Code : COM.SC-G-SEC-P-402
(HTML & XML)
[PRACTICAL]

Full Marks : 50   Time : 4 Hours

Answer **one** question either from **HTML** or from **XML**
  and that to be allotted on lottery basis.

Marks Allotment :
Class Attendance and Internal : 10 Marks.
Semester End Practical : 40 Marks
(Experiment : 30 Marks, Viva : 10 Marks)

HTML

1. Write HTML Code to create the following unordered
    list:

    Age Group
        Minor
            New Born
            Toddlers
            Child
        Teen Agers
    Adult
    Senior

Then create hyperlinks (i.e. clicking the items on the list will take to a new page of the same Title and every page will have a few lines of details)

2. Write HTML Code to create the following unordered
    list:

    Fruit
        Mango
        Pineapple
        Guava
    Flower
        Rose
        Lotus
        Hibiscus

Then create hyperlinks (i.e. clicking the items on the list will take to a new page of the same Title and every page will have a few lines of details)

3. Create a sample login page for an imaginary website. This page will have two text boxes for username and password and two buttons for submit and forget password. Clicking the forget password button will lead a page that will have a text field saying email-id and a button called submit.

4. Create an HTML document with red background with a message "warning" in large size and black font blinking. Add scrolling text "read the message" in yellow font below it.

5. Create an HTML document that displays result of 5 students in an Tabular form. Result will show Roll, Name and Percentage of Marks obtained. Fill values as you like.

6. Create the following HTML document

   a) Background colour should be "Lime"

   b) Display the text 'Generations of Computer' in heading 2 formats and insert a horizontal line below it.

   c) Create an ordered list. The list items should be First Generation, Second Generation, Third Generation, Fourth Generation, and Fifth Generation.

7. Create the following table using HTML:

Result 2020

Name	Roll Number	Percentage	Grade

8. Create an HTML document of the following format:

| Frame 1 Yellow Background | Frame 2 Red Backgroung |
| | Frame 3 Green Background |

9. Create the following table using HTML:

			Place Your Image Here	

10. Create an HTML page with following specifications:

   a) Title should be "My College"

   b) Put your college logo in the background

   c) Place your college name at the top of the page in large text followed by address in smaller size

   d) Add names of courses offered each in a different color, style and typeface

   e) Add scrolling text with a message of your choice

11. Create the following table using HTML:

Country	Population (in crore)	
	1998	85
India	1999	90
	2000	100

Country	Population (in crore)	
	1998	30
USA	1999	35
	2000	40

12. Create a registration form using HTML. Use buttons and text fields, radio buttons and drop down list as necessary.

XML

1. Design an XML document to store information about an employee of a company ABC. The information must include Serial Number, Name, Department, Date of Joining, and email id.

2. Consider this XML document

```
<Article>
    <Title>My Article </Title>
    <Authors>
        <Author>Mr. Foo</Author>
        <Author>Mr. Bar</Author>
    </Authors>
    <Body>This is my article text.</Body>
</Article>
```

Now create an XSL style-sheet to have output like following:

A. Article: My Article

B. Authors:

C. - Mr. Foo

D. - Mr. Bar

3. Here is a fragment of an XML document instance. Identify all the places where it fails to match the constraints for well formedness and write the correct code.

```
<PROCEDURE>< TITLEHow to Bathe a Cat</TITLE>
<OVERVIEW>This procedure tells you how to bathe a cat. <WARNING></OVERVIEW>
Cats don't like to take baths. You could get hurt doing this.
Be sure to obtain all the required protective gear before start. </WARNING>
<EQUIPMENT>
<ITEM>Hockey Mask
<ITEM>Padded full- body Kevlar Armor</ITEM>
<ITEM>Tub full of warm water<ITEM>
<ITEM>Towels </ITEM>
<ITEM>First Aid kit</ITEM >
```
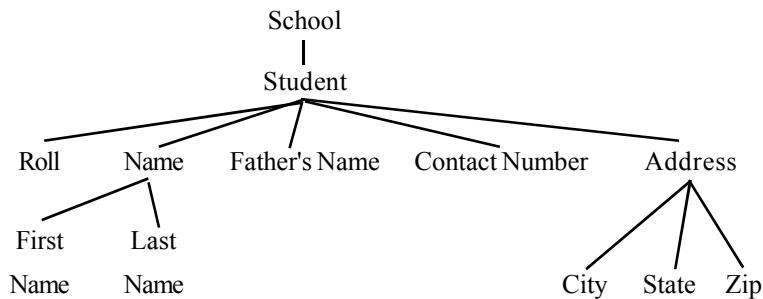
<ITEM>Cat Shampoo< /ITEM>

<EQUIPMENT>

<INSTRUCTIONS>

<STEP> Locate the cat, who by now is hiding under the bed.</STEP>

<STEP>Place the cat in the tub of water.</STEP>

<ITEM>Using the First Aid kit, repair the damage to your head and arms.</STEP>

<STEP>Place the cat back in the tub and hold it down.</ STEP>

<STEP>Wash it really fast, then make an effort to dry it with the towels.</ STEP>

<STEP>Decide not to do this again.

</STEP> </INSTRUCTIONS>

4. Write XML markup for the following tree structure:

5. For the following XML document

```
<class>
    <student rollno = "001">
    <firstname> Aaa</firstname>
    <lastname>Bbb</lastname>
    <nickname>AB</nickname>
    <marks>85</ marks>
</student>
<student rollno = "002">
    <firstname> Ccc</firstname>
    <lastname>Ddd</lastname>
    <nickname>CD</nickname>
    <marks>95</ marks>
</student>
<student rollno = "003">
    <firstname> Eee</firstname>
    <lastname>Fff</lastname>
    <nickname>EF</nickname>
    <marks>90</ marks>
</student>
</class>
```

Create an XSL style-sheet document that match the following criteria:

a) Page should have a title Students.

b) Page should have a table of student details.

c) Columns should have following headers: Roll No, First Name, Last Name, Nick Name, Marks

d) Table must contain details of the students accordingly.

6. Create the following structure using XML:

Background Colour = Blue	
Background Colour = Red	

7. Design an XML document to store information about a student of your college. The information must include Roll Number, Name, Department, Course and email id.

8. Write XML markup for the following tree structure:

```
                    Programming Language
              /                          \
        High Level                    Low Level
       /    |    \                    /        \
      C   C++   JAVA      Assembly Language  Binary Executable
```

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