

U.G. 4th Semester Examination - 2020

COMPUTER SCIENCE

[PROGRAMME]

Skill Enhancement Course(SEC)

Course Code : CMSP/SEC-P-402

Paper : XML

[PRACTICAL]

Full Marks : 50

Time : 4 Hours

Marks Allotment :

Class Attendance and Internal : 10 Marks.

Semester End Practical : 40 Marks (Experiment : 30 Marks, Viva : 10 Marks)

Answer **one** question and that to be allotted on lottery basis.

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

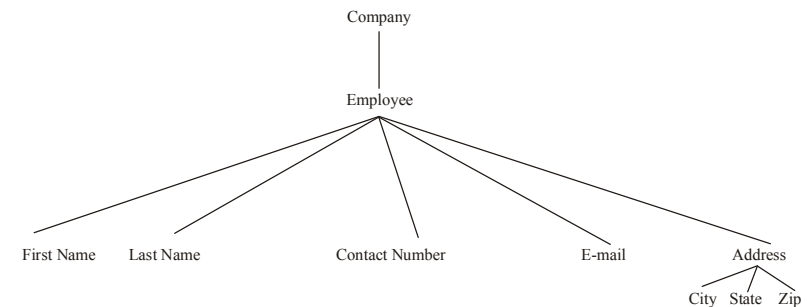
A. Article: My Article

B. Authors:

C. - Mr. Foo

D. - Mr. Bar

- Write XML code for the following tree structure



- 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><TITLE How 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>

<EQUIPEMENT>

<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>

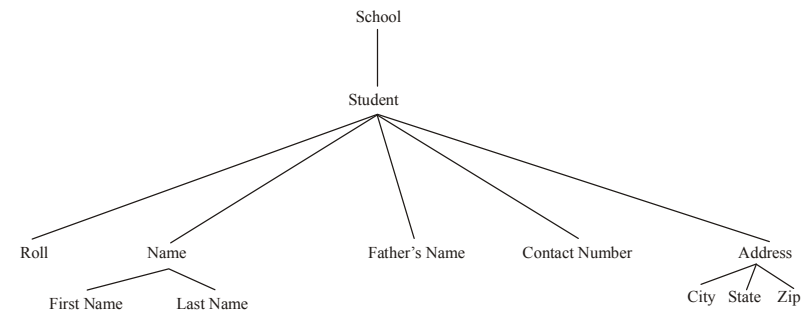
<ITEM>Using the First Aid kit, repair the damage to your head and arms.</STEP>

<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>

5. Write XML mark up for the following tree structure



6. 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 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.

7. Create the following structure using XML

| | |
|--------------------------|--|
| Background Colour = Blue | |
| Background Colour = Red | |

8. 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.
