

THE ASIAN SCHOOL

Class-10

ch9

answer scheme

A. Check the Right Answer

(1*2)

1. What is the correct way of describing XML data?
 - a. DTD
2. Which is not a correct name for an XML element?
 - b. <7eleven>

B. Application Based the following

(1*3)

1. Your teacher has asked you to create an XML document for a newspaper article. The article will consist of: headlines, date, time, place, body and notes. Draw the proper tree structure and write the relevant XML code for the same.
Tree structure:

<article>

```
<date> 11-11-2017</date> <time> 11:45 am </time> <place> delhi </place>
<headlines> Arjun Tendulkar sparkles on Australia debut</headlines>
<body> he had impressive performance, , blasts 27 – ball 48 and claims four
wickets. </body> </notes> He is the son of legendary Sachin
Tendulkar</notes> </article>
```

2. Your school is celebrating the International Health Week. Your class teacher has asked you to create a wellformed XML document for your daily diet. Include the following information in your document:
- Day (The Day element must contain at least three more child elements like Monday, Tuesday etc.)
 - Type_of_meal (Must contain at least two child elements like Lunch or Dinner)
 - Name_of_food_item (This element must contain at least three different food items)
 - Calories (Mention the approximate calorie intake per food item) Add proper comments wherever required.

Ans:

```
<healthWeek> <diet> <Day> <Monday> <type_of_meal> <lunch> green
leafy</lunch> <dinner> salad</dinner> </ type_of_meal> </Monday>
<Tuesday><type_of_meal> salad</ type_of_meal></Tuesday>
```

3. Design an XML code and tree structure for a video library. This video library must have at least three racks. Each rack must have films from a single language i.e., Hindi, English and Foreign Language Films. Categorize the movie titles in alphabetical order with the description of their director, star_cast, price and home_rights_owner.

```
XML code : <VedioLib> <rack no="1"> <film> <language> Hindi</language>
<title> A Wednesday</title><director> Steven Spielberg </director>
<star_cast> nasuruddin shah</star_cast><price> 200</price> </rack><rack
no="2"> <film> <language> English</language> <title> Jurrasic
Park</title><director> neeraj pandey </director> <star_cast> Sam Neill as Dr.
Alan Grant.
</star_cast><price> 200</price> </rack></VedioLib>
```

C. Answer the following

(2*6)

1. What is XML?

Ans: xml stands for extensible markup language. Xml is used for transferring data across the platforms. We can create custom tags using XML.

2. What is a root element? Explain its significance.

Ans: root element is the first element which is open in starting and closed in the end of XML file.

3. What are attributes and values?

Ans: Attributes are the key and values are the values assigned to the attribute of a tag. It for describing a tag.

4. Create an XML code to represent a mail sent by Anju to Suman on October 25, 2011. The message within the mail is: "Please buy sweets and crackers for Diwali".

```
<message> <sender > Anju </sender> <recepient> Suman </recipient> <date>
October 25 2011 </date> <body> Please buy sweets and crackers for
Diwali</body> </message>
```

5. Check whether the following code is well-formed or not. If not, then correct the mistakes.

Ans: No, it is not well formed. The correct version is <message> <to> Class Teacher</to> <body> I have solved some CCE Based Questions </body> <sender> Student </sender> </message>

6. Check whether the following code is well-formed or not.

No, it is not well formed as there is no root element . The correct code would be <teacherInfo> <teacher> Mrs. Banerjee </teacher> <teacher> Mrs. Gonal </teacher> <teacher> Mrs. Annmarie </teacher></teacherInfo>

D. Answer The Following

(3*10)

1. Briefly compare XML with HTML.

Ans: (i) XML is used for data transfer and HTML is used for data presentation. (ii) In XML, we can create custom tags, in HTML we have predefined tags.

(iii) XML is a structured language and HTML is not a structured language. (iv) XML is case sensitive , HTML is not case sensitive.

2. Can we interchange attributes and elements? How, why and when?

Ans: Yes, we can interchange attributes with elements. This can be done when we want to describe an element , then attribute should be used. When the value for the key is mandatory , then attribute should be used.

3. What is a DTD? What is its importance with respect to an XML document?

ans: DTD stands for document type definition. DTD

4. What is the difference between a well-formed XML document and a valid XML document?

Ans: Well formed in relation to XML means that it has no syntax, spelling, punctuation, grammar errors, etc. in its markup. These kinds of errors can cause your XML document to not parse. A valid document means the element structure and markup of the XML document matches a defined standard of relationships, in addition to having well formed markup. The standard used to validate XML is a DTD, or **D**ocument **T**ype **D**eclaration, although XML Schemas are also used.

5. Check whether the following XML document is well-formed or not.

Ans: No, the correct form will be <Mail> <To>Emily</To> <body> Let us find out who is 'A' </body><sender> Spencer </sender> </Mail>

6. In a web page, assuming that both HTML and XML have been used; what is the role of each with respect to the overall appearance of the web page?

Ans: HTML is for presenting the data and XML will deal with core data , which needs to be presented with HTML.

7. How can XML help us to share data between two different applications across two different platforms?

Ans: XML is a platform independent language. If we create and transfer an XML document, it can be accessed and understood by any operating system.

8. How are elements and attributes related to each other?

Ans: Attributes belong to a specific element. The elements are created first and then the attributes for that is decided which will be for that particular element.

9. Which of the following XML snippets are well-formed? (iii)

`<furniture>chair</furniture>`

10. How does XML handle white spaces as compared to HTML?

Ans: All white spaces are required to be reported to the parser . If white space appears before the XML declaration, it will be treated as a processing instruction.