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CS311 Assignment 1 Solution

Fall 2026

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CS311 — Introduction to Web Services Development

Assignment No. 1 — Fall 2026 | Sample Solution

Question 1 — Short XML Code (4 Marks)

The code below shows the required structure, with <student> as the root element and <name> and <studentID> inside it. Every student must write their own full name and VU Student ID in place of the placeholders, close all tags correctly and keep the indentation.

```
<?xml version="1.0" encoding="UTF-8"?>
<student>
    <name>Your Full Name</name>
    <studentID>Your VUID</studentID>
</student>
```

Question 2 — Event Bookings XML (16 Marks)

The XML given in the assignment is shown below, and both parts are answered from it.

```
<?xml version="1.0" encoding="UTF-8"?>
<eventBookings>
  <event code="EV10" city="Lahore">
    <title>Tech Expo</title>
    <booking ref="B101">
      <customer>Hina</customer>
      <tickets>2</tickets>
      <category>Standard</category>
    </booking>
    <booking ref="B102">
      <customer>Ali</customer>
      <tickets>3</tickets>
      <category>VIP</category>
    </booking>
  </event>
  <event code="EV20" city="Karachi">
    <title>Book Fair</title>
    <booking ref="B103">
      <customer>Sara</customer>
      <tickets>1</tickets>
      <category>Standard</category>
    </booking>
  </event>
</eventBookings>
```

Part A — XML Tree Relationship

Question	Answer
1. Root element name	eventBookings
2. Immediate parent of <booking>	event
3. Immediate parent of <customer>	booking

4. Name of the attribute that identifies an event	code
5. Name of the attribute that identifies a booking	ref
6. Number of direct <event> children of the root	2

Part B — Apply XML Hierarchy (TRUE / FALSE)

Statement	TRUE / FALS	Reason
1. <title> and <booking> are sibling elements under <event>.	TRUE	<title> and <booking> both sit directly under the same <event> element, which is what makes them siblings.
2. The value B102 is an element name.	FALSE	B102 is only the value stored in the ref attribute; it is not the name of any element.
3. Every <category> in the document is a child of <booking>.	TRUE	Each of the three <category> elements is written inside a <booking> element.
4. The <VIP> tag is present in the XML document.	FALSE	VIP appears only as the text inside a <category> element; no element named <VIP> exists in the document.