

Question 5

- a) colour = top.getDocumentElement().getElementsByTagName("colour").item(0).getFirstChild().getData();
or
colour = top.getDocumentElement().getElementsByTagName("fruit").item(0).getElementsByTagName("colour").item(0).getFirstChild().getData();

-1/2 mark for each missing function, -1/2 for wrong order

Note: there could be other correct solutions!

- b) fruit[@name='apples']

1 mark for fruit

1 mark for correct attribute condition

- c) <complexType name="fruitType">
 <sequence>
 <element name="colour" maxOccurs="unbounded" minOccurs="1" type="string"/>
 </sequence>
 <attribute name="name" type="string" use="required"/>
</complexType>

1 mark for correct complexType/sequence definition

1 mark for correct element and type

1 mark for minOccurs='1' on colour

1 mark for maxOccurs='unbounded'

2 marks for attribute definition and placement

Question 6

- a) yes. by using default namespaces [1] that are redefined at each node [1]
(give a mark for an example if one is provided and the explanation is not sufficient)
- b) It tries to match all the children of the context node. [1]
- c) XQuery has the FLWOR feature [1], which facilitates the equivalent of database joins. [1]