**Question 3 Xpath and Xquery**

Q1. //food[name[contains(., "Chicken")]]/calories/@total

Ans: *410*

Q2. //food[vitamins/c>0]/name/text()

Ans: *Beef Frankfurter, Quarter Pound*

*Chicken Pot Pie*

*Cole Slaw*

*Potato Chips*

Q3. //food[vitamins/c>0 and vitamins/a>0]/name/text()

Ans: *Chicken Pot Pie*

*Cole Slaw*

Q4. //food[ total-fat/text() >0 and saturated-fat/text() >= total-fat/text()\*0.5 ]/name/text()

*Ans: Truffles, Dark Chocolate*

Q5. declare option saxon:output "omit-xml-declaration=yes";

let $cho\_level:= //food/cholesterol

let $mcho:= max($cho\_level)

return

for $i in (1 to count(//food))

return if(//food[$i]/cholesterol=$mcho) then

//food[$i]/name/text()

else

()

Ans: *Eggs*

Q6. declare option saxon: output "omit-xml-declaration=yes";

<result>

{

for $i in (1 to count(//food))

return if(//food[$i]/minerals/ca/text()>0) then

<food>

{//food[$i]/name , /nutrition/food[$i]/total-fat}

</food>

else

()

}

</result>

Ans:

*<result>*

*<food>*

*<name>Bagels, New York Style </name>*

*<total-fat>4</total-fat>*

*</food>*

*<food>*

*<name>Beef Frankfurter, Quarter Pound </name>*

*<total-fat>32</total-fat>*

*</food>*

*<food>*

*<name>Chicken Pot Pie</name>*

*<total-fat>22</total-fat>*

*</food>*

*<food>*

*<name>Cole Slaw</name>*

*<total-fat>0</total-fat>*

*</food>*

*<food>*

*<name>Eggs</name>*

*<total-fat>4.5</total-fat>*

*</food>*

*<food>*

*<name>Hazelnut Spread</name>*

*<total-fat>10</total-fat>*

*</food>*

*</result>*