**Pregunta 3 (4 punts)**

Enunciat

a)  Quines clàusules podem utilitzar en una consulta XQuery? En què consisteix cadascuna d’elles? (1 punt)

There are five clauses under the acronym FLWOR:

A statement FLWOR is composed of the following parts:

One or more optionals **for** clauses that join one or more iterated variables with input sequences that can be XQuery expressions as well as XPath expressions; they can be node sequences or atomic valued sequences. The result is an iteration that binds a variable to each element returned by the expression.

Examples:

a) for $x in document("list.xml") ...

b) for $x in (1 to 10) ...

c) for $x at $i in doc("books.xml") ...

An optional **let** clause that declares and assigns a value to the variable given for the iteration that avoids repeating the same expression and as the clause for the assigned expression can be an XQuery expression as well as an XPath expression and can return a sequence of nodes or a sequence of atomic values; it is not, however, an iteration clause.

For example:

a) let $x := (1 to 5)

An optional **where** clause that applies a filter to the iteration, specifies one or more criteria for the result, if it appears to be only one time, of all the for and let clauses.

e.g:

a) where $x/preu>100 and $x/preu< 150

An optional **order by** clause that specifies the type of order to be followed from the result, if not specified, the result will be ordered according to the clauses defined previously.

e.g:

a) ... order by $x/@category, $x/preu

A **return** clause: each Xquery expression has one an it has to be the last one, it specifies what the result is.

exemple:

a) return $x/preu