

CO7216 Mock Test Solution

Q1: False

DAML-OIL is more expressive than RDFS

Q2: (c)

Lecture notes on Turtle (Page 7-8)

Q3: (a)

Lecture notes on Turtle (Page 12)

Q4: (a), (b), (c)

Lecture notes on RDF/RDFS (Page 20)

A RDF document may contain several `<rdf:Description>` elements but it can only have one `<rdf:RDF>` element

Q5: (a)

Lecture notes on RDF/RDFS (Page 36-38)

Q6: (b)

Hints: draw a RDF graph

Q7: (a), (c)

(b) → domain/range class could be the same class e.g. `foaf:knows`

(d) → FILTER should be written inside the WHERE clauses

Q8:

PREFIX uol: `<http://www.cs.le.ac.uk/rdf#>`

PREFIX foaf: `<http://xmlns.com/foaf/0.1/#>`

SELECT ?student_type COUNT(DISTINCT ?s) as ?student_count

WHERE {

?s rdf:type ?student_type.

?s foaf:age ?age.

FILTER (?age >= 22)

}

GROUP BY ?student_type