

Selected sample past exam questions

Note: All lecture and tutorial topics are examinable, the following are selected past exam questions for reference only.

Question 1

Write the following English statement in triples and graph model.

The individual whose name is James, email James@abc.org.au is the creator of the website <http://www.abc.org.au/home/James>

Question 3

What is the purpose of using blank node in RDF graph?

Question 4

The following RDF statements used to indicate "Ora Lassila is the creator of the resource <http://www.w3.org/Home/Lassila>"

```
<rdf:RDF>
  <rdf:Description about="http://www.w3.org/Home/Lassila">
    <s:Creator>Ora Lassila</Creator> </rdf:Description>
</rdf:RDF>
```

There are two mistakes in the above RDF statements, find the errors and re-write the correct RDF statements

Question 5

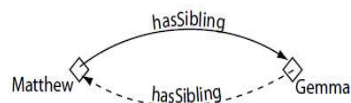
Explain what is functional property? Give an example to illustrate your answer.

What is inverse property? Give an example to illustrate.

What is transitive property?

Question 6

Given the following diagram, describe the type of property of hasSibling? Explain your answer.



Question 8

Given hasChild(Peter, Smith), and hasParent(Smith, Peter), what type of property can be used to describe hasChild and hasParent. Explain your answer.

Question 10

Web resource can be identified using IRI. What is IRI?

Question 14

There are three types of container objects. What are they and how is each type being used?

Question 19

What is datatype property? Give an example to illustrate your answer.

Question 20

What is the purpose of using Reasoner in Protege?

Question 22

Given the following Functional-style syntax for DisjointClasses in OWL 2

DisjointClasses(:Woman :Man)

Write the above DisjointClasses in RDF/XML syntax.

Question 25

Describe the process of ontology engineering.