

GUJARAT TECHNOLOGICAL UNIVERSITY
ME - SEMESTER IV (NEW) – EXAMINATION – SUMMER - 2017

Subject Code: 2740204**Date: 03/05/2017****Subject Name: Semantic Web****Time:02:30PM-05:00PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain practical importance of Today's web and semantic web with example. **07**
 (b) Explain different types of technologies in Semantic web. **07**
- Q.2** (a) Explain structure of XML Schema with example. **07**
 (b) Can you explain how to implement XML in semantic web? Explain with example. **07**
- OR**
- (b) (i)What is character data, PCDATA and CDATA in XML? How does XML deal with binary data? **07**
 (ii)What are the limitations of Document type definitions?
- Q.3** (a) What is URL (Uniform resource locator)? Explain the structure of URI (Uniform resource Indicator). **07**
 (b) How to use RDF Schema syntax and language with example. **07**
- OR**
- Q.3** (a) Write short note on Querying RQL. **07**
 (b) Explain RDF triplets with example. **07**
- Q.4** (a) Which are the most important ontology languages for the web? Explain in detail with example. **07**
 (b) Explain class disjointness and functional constraint in details with help of OWL. **07**
- OR**
- Q.4** (a) Explain practical importance and use of Encoding XML in details. **07**
 (b) What do you mean by Monotonic Rules? Explain Monotonic Rules with example. **07**
- Q.5** (a) Explain in detail Data Integration at Audi. **07**
 (b) What do you mean by e-Learning? Explain in detail with example. **07**
- OR**
- Q.5** (a) How can you implement Manual construction of Ontology in Semantic Web? Explain in detail. **07**
 (b) With neat sketch Explain Semi-automatic methods in detail. **07**
