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B.TECH.**THEORY EXAMINATION (SEM–VIII) 2016-17****SEMANTIC WEB AND WEB SERVICES***Time : 3 Hours**Max. Marks : 100**Note : Be precise in your answer. In case of numerical problem assume data wherever not provided.***SECTION – A****1. Explain the following:****10 x 2 = 20**

- (a) Specify syntactic web.
- (b) What is data in semantic web?
- (c) Why and where XML is used?
- (d) List the components of RDF triples.
- (e) What is ontology and why we need it?
- (f) Mention the applications of ontologies.
- (g) What is semantic information?
- (h) State Semantic Web Browser?
- (i) Write an example for monotonic rules with family relationships.
- (j) Define Brokered Trade.

SECTION – B**2. Attempt any five of the following questions:****5 x 10 = 50**

- (a) Draw the Architecture diagram for user interface and Applications. Explain
- (b) Explain in detail to display XML data on browser.
- (c) Write about querying in RQL with suitable example.
- (d) Discuss the role of search engines in intelligent retrieval of information.
- (e) Enumerate about reusing existing ontologies with example.
- (f) Construct the role of search Engines in intelligent retrieval of information on web.
- (g) Illustrate the rule mark up XML in detail.
- (h) Compare and contrast monotonic and non monotonic rules.

SECTION – C**Attempt any two of the following questions:****2 x 15 = 30**

3. Write the architecture of XML with document Type Definitions and Schema.
4. Discuss briefly about semantics in detail.
5. Explain Non-monotonic rule example.