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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.

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