B.E. (Computer Technology) Eighth Semester (C.B.S.)
Elective – III : Web Data Management

P. Pages : 1

TKN/KS/16/7686

Time : Three Hours

0727

Max. Marks : 80

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Notes : 1. All questions carry marks as indicated.
2. Solve Question 1 OR Questions No. 2.
3. Solve Question 3 OR Questions No. 4.
4. Solve Question 5 OR Questions No. 6.
5. Solve Question 7 OR Questions No. 8.
6. Solve Question 9 OR Questions No. 10.
7. Solve Question 11 OR Questions No. 12.

1. a) Explain XML. With its syntax, Draw & explain XML data model. **7**

    b) Write short note on. **6**
      i) X Link   ii) X Pointer
OR

2. a) What is Modelling of web data? Explain the web applications. **7**

    b) What is semistructured data? Explain web data management with XML. **6**

3. a) Explain X path & X Query data model for document. **7**

    b) Explain the X Query in detail with its syntax. Describe its features. **6**
OR

4. a) Define X path. Explain in detail X path Basics and X path steps & expressions. **7**

    b) State and explain FLOWR expression in XML in detail. **6**

5. a) State and explain the different XML evaluation techniques. **7**

    b) Write short note on. **6**
      i) Graph semistructured data.   ii) Graph Bisimulation.
OR

6. a) State and explain XML schema. Also write down about other schema languages. **7**

    b) Write short note on Automata on ranked trees and unranked trees. **6**

7. a) State and explain the RDF in detail with example also state RDF schema. **7**

    b) Write short notes on. **7**
      i) OWL   ii) Ontologies
OR

8. a) Explain Querying data through ontologies. **7**

    b) Explain in detail Querying of RDF data, also explain querying through RDFS **7**

9. a) Write short note on. **7**
      i) P2P Networks   ii) Web 2-0

    b) What is distributed system? Explain the different characteristics of distributed system. **7**
OR

10. a) What is page Ranking? Explain it in detail with example. **7**

    b) What is web crawlers? Explain it with example how if works. **7**

11. a) State and explain Hash based structures in detail with neat diagram. **7**

    b) How Map Reduce and PIG is used in distributed computing? Explain. **6**
OR

12. Draw and explain the architecture of HADOOP. Also explain the steps for installing and running HADOOP. in detail. **13**

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