

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

P. Pages : 2

Time : Three Hours



**NKT/KS/17/7601**

Max. Marks : 80

- 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.
  8. Assume suitable data whenever necessary.
  9. Illustrate your answers whenever necessary with the help of neat sketches.

1. a) Define XML. Describe use of XML for data management. 7
- b) Write a note on. 6
- i) Xpointer
- ii) Xlink

**OR**

2. a) What do you mean by XML document? Describe it with example. 7
- b) What is semi structure data model? Explain it's use. 6
3. a) Define Xpath. Describe basics of Xpath with Xpath steps & expression. 7
- b) What is XQuery? Describe its advanced features. 7

**OR**

4. a) Describe Xpath & XQuery data model for documents. 7
- b) Describe FLWOR expressions in XQuery. 7
5. a) Write a note on. 7
- i) Graph Bisimulation.
- ii) Graph Semi Structure data.
- b) Define XML schema. Explain with example. 6

**OR**

6. a) What are different XML Query evaluation techniques. 7  
b) Explain how fragmentation of XML document on disk can be carry out. 6

7. a) Write a note on RDF. 6  
b) Explain Querying data through ontologies. 7

**OR**

8. a) Write a note on OWL. 6  
b) Explain ontology by example. 7

9. a) Define distributed system. Explain required properties of distributed system. 7  
b) Write a note on. 6  
i) Web 2.0  
ii) P2P Network

**OR**

10. a) What is page Ranking? Explain with example. 7  
b) What is web crawler? Explain how it works. 6

11. a) Write a note on. 7  
i) PIG.  
ii) Script Running in cluster node.  
b) What is map Reduce? Explain it's Role in distributed computing. 7

**OR**

12. a) Explain hash based structure with neat diagram. 7  
b) What is distributed tree? Explain design issues for distributed trees. 7

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