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**Question Paper Code: 31782**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2016

Seventh Semester

Information Technology

01UIT702 - ADVANCED DATABASE SYSTEMS

(Regulation 2013)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. List the relative advantages of centralized and distributed databases.
2. Differentiate between Inter query and Intra query parallelism.
3. State the significance of object-oriented database and relational database.
4. Write the types of fragmentation.
5. What is the difference between XML schema and DTD?
6. List the markup languages which are suitable for web databases.
7. What is meant by enhanced data model?
8. List the components of deductive database.
9. How do mobile databases differ from regular databases?
10. What is database administration?

PART - B (5 x 16 = 80 Marks)

11. (a) (i) Explain in detail about the distributed databases and client server databases. (8)  
(ii) Describe the architecture of distributed database. (8)

Or

- (b) Explain the steps involved in processing a query with suitable example. (16)

12. (a) (i) Explain the object oriented database and its approaches. (8)  
(ii) Explain the mechanism to make the objects persistence in OODB. (8)

Or

- (b) Explain about ODMG model with an suitable example. (16)

13. (a) How XML are stored and processed in web database? Explain with an example. (16)

Or

- (b) Write Short notes on the following: (i) Scripting Languages (ii) Common gateway interface (iii) HTTP Cookies and (iv) Web server. (16)

14. (a) Discuss the design and implementation issues for active database. (16)

Or

- (b) Discuss about temporal database and deductive database with an example. (16)

15. (a) (i) What is the significance of GIS, and how it relates to geographic information systems? (8)  
(ii) Mention the characteristics of Biological data that makes Genome data management challenging. (8)

Or

- (b) Discuss about mobile database and multimedia database with examples. (16)