10. (a) Explain :

(i) Distributed databases and

(ii) Centralized databases with suitable examples.

Or

(b) Compare distributed databases with that of centralized databases in detail.

11. (a) Write an essay on various types of fragmentation.

Or

(b) Discuss in detail the architecture of DDB with objectives.

12. (a) Write an essay on the importance of query optimization with suitable examples.

Or

(b) Discuss the reduction of relations using the semi-join operation with suitable example.

13. (a) Explain any two facilities to implement a distributed transaction using CICS/ISC.

Or

(b) Discuss the read and execute phase of SDD-1.

1707/S31 **MAY 2008**

DISTRIBUTED DATABASE DESIGN

(For those who joined in July 2002 and after)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — ($8 \times 5 = 40$ marks)

1. (a) Explain the advantages of centralized control of data.

Or

(b) Write a note on the relational model of database system.

2. (a) Explain any two operations of relational algebra.

Or

(b) Write a note on the need for distributed database systems.

3. (a) Explain :

(i) Local optimization and

(ii) Global optimization in relation to design of optimizer.

Or

(b) Explain the distribution transparency for read-only application with example.

4. (a) What are the rules governing the definition of fragments? Explain.

Or

(b) Explain fragmentation tree with example.

5. (a) List the transmission requirements in terms of costs and delays.

Or

(b) Explain the process of using semi-join programs for join queries with suitable examples.

6. (a) Explain expression of a fragment query.

Or

(b) Explain the properties of transactions with suitable examples.

7. (a) Explain the profiles of the relational algebra operation selection.

Or

(b) Explain the reasons for replacing operating systems with CICS.

8. (a) Explain IBM's inter system communication.

Or

(b) Explain guaranteed deliver layer.

PART B — ($5 \times 12 = 60$ marks)

9. (a) Explain the following with suitable examples :

(i) Network model

(ii) Hierarchical model.

Or

(b) Explain the operations :

(i) Selection

(ii) Projection

(iii) Union

(iv) Difference

(v) Join and

(vi) Natural join operations with suitable examples.

12. (a) Explain Java Script Event Handlers with examples.

Or

(b) Write note on :

(i) Data types .

(ii) Name space and variable declaration.

(iii) Scalar variables and

(iv) Arrays in PERL.

13. (a) Explain the following in VB Script :

(i) Different types of procedures.

(ii) msg Box function

Or

(b) Write note on :

(i) Ole Control and

(ii) Activex Control in VB Script.

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1708/S32 **MAY 2008**

INTERNET AND JAVA PROGRAMMING

(For those who joined in July 2002 and after)

Time : Three hours Maximum : 100 marks

PART A — ($8 \times 5 = 40$ marks)

Answer ALL questions.

1. (a) Discuss DNS in detail.

Or

(b) Describe SMTP in detail.

2. (a) Explain Network file system with suitable diagram.

Or

(b) Write note on WAIS.

3. (a) Explain data types in JAVA with suitable example.

Or

(b) Write a JAVA Program to sort an array of integers in ascending order.