A-PDF MERGER DEMO

INDIAN STATISTICAL INSTITUTE BANGALORE

INTERNAL ASSESMENT

Bsc (Mathematics) - Final Year

Total Marks: 40

Duration : 2 Hrs.

Date: 12-03-2004

Answer for 20 Marks from Part A(By Selecting 2 Questions)

and 20 Marks from Part B

PARTA

l.a	Explain the following	
	a. Database	
	b. Database system	$2\frac{1}{2} \times 2 = 5$
l.b	Explain Data Independence and its type in detail.	5
lla	Explain Three Schema Architecture in Detail	6
llb	What is Database Management System Explain different types of Database Management system	
	Compare File processing system with Database system	10

and the first late with Language

Sub: COMPUTER SCIENCE IV

Max. Marks: 50

ANSWER ANY 5 FULL QUESTIONS

a. Explain Metadata and System catalogue. 5 Marks b. Explain Data Model, E R Model and Mapping constraints. 5 Marks a. Explain logical Data Independence and physical Data Independence 5 Marks b. Write a Note on structured Query language 5 Marks Explain with standard syntax and examples III $2 \times 5 = 10$ Marks 1. Create Table Command 2. Create Index command 3. Select Statement 4. Alter Command 5. Drop Command IV Using E R Model Draw and explain E R Diagram of a company database schema 10M Explain: $2 \times 5 = 10$ Marks 1. Relational Data Model & Relational DBMS 2. Tuple of a Table 3. Domain of an Attribute 4. Primary Key 5. Foreign Key Explain Advantage, Disadvantages and applications of $5 \times 2 = 10 \text{Marks}$ 1. File processing system 2. Database system VII a. Explain with examples 1. Grouping by and having clause 4 Marks 2. Aggregate functions in SQL 6 Marks (Max, Min, Sum, Avg, Count)