All Righ	at Reserved	1	
Department of Technical Education and Training 100222			
NVQ Level 05 Written Examination —December 2012 (Semester I)			
National Diploma in Information & Communication Technology			
	Database Systems I 5S1NVQ 001	Three Hours	
Instructions: Answer four (04) questions.			
1.	Briefly explain the following:		
	i. DDL and DML	(08 Marks)	
	ii. Entity, attributes and relationship	(09 Marks)	
	iii. Primary key and Foreign key	(08 Marks)	
2.	i. Write down the characteristics of DBMS.	(10 Marks)	
۷.	ii. Explain three schema architecture in brief.	(15 Marks)	
	n. Explain three schema architecture in oriel.	(15 Marks)	
3.	Consider the following database tables.		
	Emplist(EmpNo, FName, LName, Address, City, BSalary)		
	Write SQL statements for the following:		
	i. Create the above "Emplist" table.	(10 Marks)	
	ii. Display all EmpNo, Lname and BSalarywhere the BSalary is greater than		
	30,000/=	(08 Marks)	
	iii. Remove all employers in Kandy city.	(07 Marks)	
4.	Consider the following information of an organization. The organization wishes to maintain		
	the status about the working hours made by his employees. An employee can work in more		
	than one department; the pct_time field shows the percentage of time that a given employee		
	works in a given department.		
	EmpID EmpNome Age Colon: DentID Bet time Budget Manage ID		
	EmpID, EmpName, Age, Salary, DeptID, Pct_time, Budget, ManagerID		
	Normalize this to 3NF.	(25 Marks)	
	MOI MAILZE LINS TO SINE.	(23 Marks)	

Consider the following information:

- A department employs many employees, but each employee is employed by one department.
- Some employees are not assigned to any department.
- A division operates many departments, but each department is operated by one division
- An employee may be assigned to many projects, and a project may have many emplo assigned to it.
- A project must have at least one employee assigned to it.
- One of the employees manages each department, and each department is managed by only one employee.
- One of the employees runs each division, and each division is run by one employee.

Draw ER Diagram for this system.

(25 M

