NEW SUMMIT COLLEGE
Shantinagar, Kathmandu

MID TERM EXAMINATION-2080

Bachelors in Business Management
COM 312- DBMS
Semester: VI

Full Marks: 40
Time: 3 hours

Group A

Very Short Answer Questions (1x5 = 5)

14. What is database user? List its types.
15. What is DML? List its commands.
16. What is key? Define Foreign Key.
17. What is relationship and relationship set?
18. Define Field and Record with suitable examples.

Group B

Short Answer Questions
Attempt All questions.
(5x3 = 15)

19. Discuss advantages of database management system over file system management.
20. Explain total participation and partial participation constraints with suitable examples.
21. What is join? Discuss the purpose of Cartesian product and natural join.
22. Discuss role and responsibilities of DBA?
23. What is Data Independence? Explain three Schema Architectures. X. Physical, Logical, View.

How, what is the relation between data,

Group C

Long Answer Questions
Attempt all questions.
(2x10 = 20)

24. What is ER Model? Draw an Entity-Relationship (ER) diagram for a Bank Management System, assuming all possible entities and translate the depicted entities and relationships into relational tables.

25. What is generalized projection and aggregate function. List at least five aggregate function. Consider a following Employee table., Write a relational algebra for the following and Also show output as a tabular format.

eid	name	address	age	salary
1	Alice	KTM	30	50000
2	Bob	PKR	25	40000
3	Charlie	BTWL	40	60000
4	David	CTWN	28	45000
5	John	KTM	35	55000

a) Select the information of employees who are from Kathmandu.
b) Display the name and age of all employees.
c) Find average age of employee of address KTM., avg.
d) Delete all of Alice information from Employee relation.
e) Rename the "Employee" table to "My_employee".

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