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Sixth SEMESTER
MID SEMESTER EXAMINATION

CO318 ADVANCED DATABASE MANAGEMENT SYSTEM

Time: 1:30 Hours Max. Mark	s: 30
Note: Answer all Questions. Assume missing data if any.	
Q1. (a) What is XML DTD? Explain the notations used in DocuType Definition (DTD).(b) Create a procedure that inserts multiple rows in an exrelation.	[3]
Q2. Create a function that accept roll no from Student(rol name, branch, year) relation as an input and returns his/her age.	ll_no, [5]
Q3. Draw all possible query tree for below Relational Algebra and would be the best query plan? Π EMP_ID, DEPT_NAME (σ DEPT_ID = 10 AND EMP_LAST_NA 'Sharma' (EMP) ∞DEPT)	[5]
Or ∏ EMP_ID, DEPT_NAME (σ DEPT_ID = 10 AND EMP_LAST_NA 'Sharma' (EMP ∞DEPT))	ME =
Or σ DEPT_ID = 10 AND EMP_LAST_NAME = 'Sharma' (∏ EM DEPT_NAME, DEPT_ID (EMP ∞DEPT))	P_ID,
Q4.(a) What is Materialized View (MV)? Explain it in connectionJoin operation.(b) Explain Log based recovery with suitable example.	1 with [3] [2]

P.T.O.

Q5. What is an equivalence rule? Describe various equivalence rules used for query optimization. [5]

Q6. Differentiate between the following:

[5]

a) Embedded SQL and Dynamic SQL

b) Stored procedure and function

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