## Paper / Subject Code: 89348 / Database Management System (DLOC)

1T01036 - T.E.(Electronics and Telecommunication )(SEM-VI)(Choice Base Credit Grading System )
(R- 19) (C Scheme) / 89348 - Database Management System (DLOC)

QP CODE: 10028910

Duration: 3hrs

[Max Marks:80]

N.B.: (1) Question No 1 is Compulsory.

- (2) Attempt any three questions out of the remaining five.
- (3) All questions carry equal marks.
- (4) Assume suitable data, if required and state it clearly.

1	Attempt any FOUR			
	-) I !-4 41- A CID	: 15 1 - : 41-	C. 1	

- a) List the ACID properties. Explain the usefulness of each.
- b) Explain the Hierarchical Model in detail.
- c) What are the advantages of DBMS over file system?
- d) What are Foreign Key Constraints?
- e) Explain E-R Model in detail.
- f) Explain DDL, DML & DCL commands in SQL with its examples

2	a	Explain different between	the term seria	al schedule	e and Seria	alizable Sch	nedule 🥎	[10]
		with suitable example			138	O.F.		

- b State and explain the twelve codds rules relational database [10]
- **a** What is Normalization? Explain 1NF, 2NF, 3NF, and BCNF. [10]
  - **b** Explain the overall Database system architecture [10]
- 4 a Write short note on cartesian product with its syntax and example [10]
  - b Draw an ER Diagram for Hospital management where patient take treatment from physician and also, he/she can claim a medical insurance [10]
- 5 a Explain various database languages [10]
  - b What are views? Explain how to create a views [10]
- 6 a What are the basic building blocks of data models, explain with example [10]
  - **b** Write note on OCC and Database Recovery Management [10]