Roll No. ☐☐☐☐☐☐☐☐☐☐

MCA-3
1st Year Examination, Calendar Batch 2017
Data Base Management System

Time : 3 Hours]   *[Max. Marks : 100*

Note. *Attempt any five questions. Each questions carry equal marks.*

Q.1 What is Transaction? Draw a state diagram of a transaction showing its states. Explain ACID properties of a transaction with suitable examples.

Q.2 What do you mean by timestamps? Explain the salient features of timestamp ordering protocol.

Q.3 Define SQL? Explain how SQL works?

Q.4 Discuss various advantages and disadvantages of the database approach.

Q.5 Explain the Two-Phase locking protocol.

Q.6 What is relational algebraic expression and what are relational algebraic operations? explain

Q.7 Describe the architecture of DBMS with a neat & clean diagram.

Q.8 Discuss the DKNF.