Reg. No. :					

Question Paper Code: 34205

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

Fourth Semester

Computer Science and Engineering

01UCS405 – DATABASE MANAGEMENT SYSTEMS

(Regulation 2013)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions.

PART A -
$$(10 \times 2 = 20 \text{ Marks})$$

- 1. Define normalization.
- 2. Mention the various types of data models.
- 3. Explain embedded SQL with an example query
- 4. Define Query Optimization.
- 5. How does the recovery manager ensure atomicity of transactions? How does it ensure durability?
- 6. Justify the need for Concurrency control.
- 7. Differentiate static hashing and dynamic hashing.
- 8. What benefit does strict two-phase locking provide? What are the disadvantages of it?
- 9. Define data marts.
- 10. List out the components of data warehouse.

PART - B (5 x
$$16 = 80 \text{ Marks}$$
)

11. (a) (i) Discuss the main characteristics of the database approach and how it differs from traditional file systems. (6)

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