$(5 \times 6 = 30)$

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Answer the following questions in one or two sentences. Each question carries 2 marks.

- Define field and record. 1.
- Define degree of a relation. 2.
- State the use of triggers. 3.
- Write the syntax for creating a virtual relation in SQL. 4.
- State the need of normalization. 5.

PART - B

(Maximum marks: 30)

Answer any five of the following questions. Each question carries 6 marks. II

- 1. Write various application areas of DBMS.
- Describe the duties of a database administrator. 2.
- 3. Define keys.
- Summarize the notations used in E-R diagrams. 4.
- Distinguish between inner join and outer join. 5.
- Discuss the goals of Data Mining Technology. 6.
- Explain transparency in Distributed databases. 7.

[Time : 3 hours

(Maximum marks: 100)

THIRD SEMESTER DIPLOMA EXAMINATION IN COMPUTER ENGINEERING — OCTOBER, 2016

DATABASE MANAGEMENT SYSTEM

PART-A

(Maximum marks : 10)

Marks

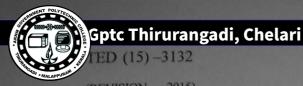
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(REVISION - 2015)

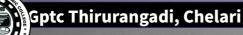
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IV

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VII

VIII

IX

X

Marks PART-C (Maximum marks: 60) (Answer one full question from each unit. Each full question carries 15 marks.) UNIT-I 9 (a) Explain Component Modules of DBMS. III 6 (b) Write short notes on DBMS languages. OR 9 (a) Explain any two data models. (b) Distinguish between two-tier and three-tier architectures for DBMS. 6 UNIT-II (a) Explain the following relational operations with examples. 9 (ii) PROJECT (iii) RENAME SELECT (i) (b) Explain mapping of entity types and relationship types in E-R model to 6 relational model. OR 9 (a) Explain enhanced ER diagram with an example. 6 (b) Discuss the relational model concepts of a database. UNIT---III 8 (a) Explain different aggregate functions with suitable examples. 7 (b) Discuss the use of stored procedures with an example. OR (a) List the steps taken to provide database connectivity using JDBC. 9 (b) List and explain the operations that can be done using 'ALTER TABLE' 6 command. UNIT-IV (a) Define Functional Dependency. (b) Discuss parallel and distributed database architectures. OR (a) State the object oriented database concepts.

(b) Explain dependency preservation and lossless join properties of decomposition.

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