

Roll No. ....

## PGDCA-105

### P. G. D. C. A. EXAMINATION, 2018

Paper Fifth

#### DATABASE MANAGEMENT

*Time : Three Hours ] [ Maximum Marks : 100*

**Note :** Attempt questions from all Sections as directed.

**Inst. :** The candidates are required to answer only in serial order. If there are many parts of a question, answer them in continuation.

#### Section—A

#### (Short Answer Type Questions)

**Note :** Attempt all questions. Each question carries 4 marks.

1. (A) What is the difference between Database and Data structure ?
- (B) Write only *two* objective of Database system.
- (C) How do we use B-tree in Database system ?
- (D) What is table in relational DBMS ?
- (E) Write about hierarchical database model. Explain with *one* example.
- (F) Write about the Network database model with *one* example.

- (G) Write about the Relational database model with *one* example.
- (H) Write about the keys of relations database model.
- (I) Write difference between Candidate key and Alternate key.
- (J) What is primary key ? Give *one* example of primary key.

### Section—B

#### (Long Answer Type Questions)

**Note :** Attempt any *two* questions. Each question carries 15 marks.

- 2. Illustrate the Architecture of Database system with *one* example.
- 3. What is Indexing ? Write the General Indexing techniques.
- 4. What is System R ? Write the component of system R.
- 5. What is DDL ? Write the difference between DDL and DML and also write the three DDL command.

### Section—C

#### (Long Answer Type Questions)

**Note :** Attempt any *two* questions. Each question carries 15 marks.

- 6. Write the differences between segment and pages in database systems. Explain each with *one* example.
- 7. Write short notes on the following :
  - (i) E-R diagram

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- (ii) Data flow diagram
  - (iii) Flowchart
8. What is directories system ? Write about the directories system in detail.
9. What is Normalisation in DBMS ? Write types of Normalization and also explain BCNF with *one* example.