

**1222****Code : 15CS33T**Register  
Number

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**III Semester Diploma Examination, April/May-2018**  
**DATABASE MANAGEMENT SYSTEM**

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

- Note :** (i) Answer any **six** full questions from Part – A. Each carries **five** marks.  
(ii) Answer any **seven** full questions from Part – B. Each carries **ten** marks.

**PART – A****BETA CONSOLE!**

1. What do you mean by end users ? List the different types of end users. **5**
2. List the various DBMS interfaces and explain each. **5**
3. List out the notations used for E-R diagram. **5**
4. List and explain the different types of attributes. **5**
5. Classify and explain the constraints on databases and give examples for each of them. **5**
6. Define the following terms : **5**
  - (a) Domain
  - (b) Attribute
  - (c) Tuple
  - (d) Relation (r)
  - (e) Relation schema (R)
7. Write a note on CREATE and DROP command with example. **5**
8. Explain second normal form with an example. **5**
9. Bring out the advantages and disadvantages of NoSql. **5**

**PART – B**

10. Discuss any five advantages of DBMS. 10
11. With a neat diagram explain the different phases of database design. 10
12. What is a constraint ? Explain with example the different constraints that are violated during INSERT, UPDATE and DELETE operations. 10
13. Explain the following with example : 10
- (a) INSERT
  - (b) DELETE
  - (c) UPDATE
  - (d) Group by
  - (e) Order by
14. (a) Retrieve the total number of employees in the research department by considering EMPLOYEE and DEPARTMENT tables. 5
- (b) Create a view that has employee number, employee name and salary on the employee table. 5
15. (a) Explain different types of aggregate function. 5
- (b) What is Data independence and explain its types. 5
16. What is normalization ? Explain the different UPDATE anomalies of tables. 10
17. Discuss the informal design guidelines for relational schema. 10
18. What is a transaction ? Explain the desirable properties of transaction. 10
19. Explain any five type of failures. 10

**BETA CONSOLE!**

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