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## Roll No. DCA-3, ADCA-3, BCA-4 1st Year Examination, Academic Batch 2018 Data Base Management System

Time: 3 Hours ] [Max. Marks: 100

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

- 1. Explain DBMS and its characteristics? Also discuss its applications and functions.
- 2. Discuss modeling and types of data model?
- 3. Discuss ER model? Describe notations used in ER diagram? Also discuss various relation types?
- 4. Discuss Attributes and Entities.
- 5. Discuss First and second normal form.
- 6. Write a PL/SQL code block to calculate the area of a circle for a value of radius varying from 4 to 8. Store the radius and the corresponding values of calculated area in an empty table named as areas, consisting of two columns radius and area.
- 7. (a) Discuss Concurrency control
- (b) Discuss database security.
- 8. Write short notes on –
- (a). Select (b). Profit and Loss account
- (c). Delete from (d) Update