Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_

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**End Semester Examination – Nov/Dec – 2018**

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| **Code :** | **17CA2006** | **Duration :** | **3hrs** |
| **Sub. Name :** | **DATABASE MANAGEMENT SYSTEMS** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Describe the Database system structure with the neat diagram. | CO1 | 12 |
| b. | List the various database users and administrator. | CO1 | 8 |
| (OR) | | | | |
| 2. | a. | Demonstrate an E-R Diagram for the following problem:Student earn the non academic credit. | CO3 | 10 |
| b. | Discuss about any five relational algebra operations. | CO2 | 10 |
|  |  |  |  |  |
| 3. | a. | Discuss about the aggregate functions and set operations with suitable example queries. | CO4 | 10 |
| b. | Construct the following query for the student table (Assume that student table contain the following attributes:regno, name,deptno,deptname, phno, class, fees).   1. Create a view called stuview (view must contain regno, name, class,fees). 2. Insert a record into the stuview. 3. Create a view called mca (view must contain regno, name, class, fees) where select the class as mca. 4. Update the fees of the mca view as 51000, if any record contain the fees is between 40000 to 50000. | CO4 | 10 |
| (OR) | | | | |
| 4. |  | Explain about the Dynamic SQL in detail. | CO4 | 20 |
|  |  |  |  |  |
| 5. |  | Experiment the following E-R features in the real time applications.   1. Specialization. 2. Generalization. 3. Attribute inheritance. 4. Aggregation. | CO4 | 20 |
| (OR) | | | | |
| 6. |  | Examine the following concepts in the E-R Model with suitable example.   1. Entity Sets. 2. Relationship Sets. 3. Constraints. | CO4 | 20 |
|  |  |  |  |  |
| 7. |  | Classify the various types of normalization in detail. | CO2 | 20 |
| (OR) | | | | |
| 8. | a. | Give an outline about the organization of records in files . | CO6 | 10 |
| b. | Demonstrate about the Data-Dictionary Storage. | CO6 | 10 |
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|  | | **Compulsory**: |  |  |
| 9. |  | Paraphrase about the lock-based protocols. | CO5 | 20 |