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

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

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| **Code :** | **16CA2006** | **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. | Discuss about the different database applications. | CO1 | 10 |
| b. | Compare Database systems versus File Systems. | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | Describe about the view of data. | CO1 | 5 |
| b. | Explain about the database system structure with a neat diagram. | CO1 | 15 |
|  |  |  |  |  |
| 3. |  | Demonstrate the following query languages with suitable example.   1. Data-Definition Language. 2. Data-Manipulation Language. | CO2 | 20 |
| (OR) | | | | |
| 4. | a. | Discuss about the Entity Relationship Model. | CO3 | 10 |
| b. | Develop an E-R Diagram for Banking Enterprise. | CO3 | 10 |
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| 5. |  | Illustrate any five relational algebra operations with suitable example. | CO2 | 20 |
| (OR) | | | | |
| 6. | a. | Elaborate about the functional dependencies used in databases. | CO3 | 4 |
| b. | Construct the following query for the employee table (Assume that employee table contain the following attributes:empno, name,deptno,deptname, phno, designation, salary).   1. Create a view called Empview (view must contain empno, name, designation,salary) 2. Insert a record into the Empview 3. Create a view called manager (view must contain empno,name, designation,salary), where select the designation as manager . 4. Update the salary of the manager view as 50000, if any record contain the salary is less than 50000. | CO2 | 16 |
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| 7. |  | Associate any three normalization techniques with library management system and explain the same. | CO3 | 20 |
| (OR) | | | | |
| 8. |  | Classify the various techniques used to recover the databases. | CO3 | 20 |
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|  | | **Compulsory**: |  |  |
| 9. |  | Demonstrate the different types of concurrency protocols used in database systems. | CO3 | 20 |