|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| USN |  |  |  |  |  |  |  |  |  |  |

 |  |
| Internal Assessment Test 1 – September 2018 |
| Sub: | DATABASE MANAGEMENT SYSTEM | Sub Code: | 15CS53 | Branch: | CSE |
| Date: | 08/09/2018 | Duration: | 90 min’s | Max Marks: | 50 | Sem / Sec: | 5(A,B,C) | OBE |
| Answer any FIVE FULL Questions | MARKS | CO | RBT |
| 1 (a) | Discuss the main characteristics of database approach. How it differ from traditionalDatabase. | [10] | CO1 | L2 |
| 2 (a) | Define an entity and an attribute. Explain the different types of attributes that occur in an ER model, with an example. | [10] | CO1 | L2 |
| 3 (a) | Describe the steps to convert from E-R diagram to Relational mapping. | [10] | CO2 | L2 |
| 4 (a)  | Discuss concepts related to structural constraints of a relationship-type with examples. | [10] | CO1 | L2 |
| 5 (a)  | Write an ER diagram for Banking management considering at least four entities. | [10] | CO1 | L3 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| USN |  |  |  |  |  |  |  |  |  |  |

 |  |
| Internal Assessment Test 1 – September 2018 |
| Sub: | DATABASE MANAGEMENT SYSTEM | Sub Code: | 15CS53 | Branch: | CSE |
| Date: | 08/09/2018 | Duration: | 90 min’s | Max Marks: | 50 | Sem / Sec: | 5(A,B,C) | OBE |
| Answer any FIVE FULL Questions | MARKS | CO | RBT |
| 1 (a) | Discuss the main characteristics of database approach. How it differ from traditionalDatabase. | [10] | CO1 | L2 |
| 2 (a) | Define an entity and an attribute. Explain the different types of attributes that occur in an ER model, with an example. | [10] | CO1 | L2 |
| 3 (a) | Describe the steps to convert from E-R diagram to Relational mapping. | [10] | CO2 | L2 |
| 4 (a)  | Discuss concepts related to structural constraints of a relationship-type with examples. | [10] | CO1 | L2 |
| 5 (a)  | Write an ER diagram for Banking management considering at least four entities. | [10] | CO1 | L3 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 6 (a) | Explain schema-based constraints in relational model. | [10] | CO2 | L2 |
|  7 (a) | The tables MOBILE and LAPTOP are given below. Show the results of MOBILE X LAPTOP and (MOBILE (MOBILE.PRICE<LAPTOP.PRICE)LAPTOP )

|  |  |  |
| --- | --- | --- |
| **MOBILE** |  | **LAPTOP** |
| **MID** |  **MNAME** | **PRICE** | **LID** | **LNAME** | **PRICE** |
| 1 | NOKIA | 11K | 21 | HP | 35K |
| 2 | SAMSUNG | 25K | 22 | DELL | 45K |
| 3 | I POHONE | 50K | 23 | TOSHIBA | 47K |

 | [05] | CO2 | L3 |
|  (b)  | Consider the following relation for a database of the company:Employee(Name,Eno,salary,super no, Dnumber)Department( Dname, Dnumber, Mgr No)Deptlocation(Dnumber,Dlocation)Specify the following queries in relational algebra: | [05] | CO2 | L3 |
|  | i) Retrieve the name and address of all the employee who work for the design Department. ii) Retrieve the Manager name who is working for Dnumber=5. |  |
|   |  |  |

 ALL THE BEST

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 6 (a) | Explain schema-based constraints in relational model. | [10] | CO2 | L2 |
|  7 (a) | The tables MOBILE and LAPTOP are given below. Show the results of MOBILE X LAPTOP and (MOBILE (MOBILE.PRICE<LAPTOP.PRICE)LAPTOP )

|  |  |  |
| --- | --- | --- |
| **MOBILE** |  | **LAPTOP** |
| **MID** |  **MNAME** | **PRICE** | **LID** | **LNAME** | **PRICE** |
| 1 | NOKIA | 11K | 21 | HP | 35K |
| 2 | SAMSUNG | 25K | 22 | DELL | 45K |
| 3 | I POHONE | 50K | 23 | TOSHIBA | 47K |

 | [05] | CO2 | L3 |
|  (b)  | Consider the following relation for a database of the company:Employee(Name,Eno,salary,super no, Dnumber)Department( Dname, Dnumber, Mgr No)Deptlocation(Dnumber,Dlocation)Specify the following queries in relational algebra: | [05] | CO2 | L3 |
|  | i) Retrieve the name and address of all the employee who work for the design Department. ii) Retrieve the Manager name who is working for Dnumber=5. |  |
|   |  |  |

 ALL THE BEST