

BCA  
SECOND SEMESTER  
RELATIONAL DATABASE MANAGEMENT SYSTEM  
BCA- 202

Duration: 2 Hrs. 40 Mins.

Marks: 50

{ Part : A (Objective) = 20 }  
{ Part : B (Descriptive) = 50 }

[ PART-B : Descriptive ]

[ Answer question no. One (1) & any four (4) from the rest ]

1. What is the significance of using an ER Diagram in a database? Write down the symbols used in ER Diagram. Draw an ER Diagram for Hostel Management System  
2+4+4= 10
2. What do you mean by hashing? Explain the hash functions and collision resolution techniques with examples.  
2+6+2= 10
3. What are the types of statements used in SQL. Explain all the types along with examples.  
3+7= 10
4. Why constraints are necessary to use in DBMS. Explain the different constraints of DBMS.  
2+8=10
5. Why normalization is used? Explain all types of normal forms along with the examples.  
4+6= 10
6. What is a view? Define the types of view along with its restrictions.  
3+7= 10
7. What is the use of concurrency control in DBMS? Write the syntax to lock a table. Give example. How a lock can be released?  
3+3+2+2= 10
8. Explain the relational operators along with example. 10



**UNIVERSITY OF SCIENCE & TECHNOLOGY, MEGHALAYA**



Question Paper CUM Answer Sheet

**[PART (A) : OBJECTIVE]**

Serial no. of the main  
Answer sheet

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18. The E-R data model based on a perception of the real world that consists of a set of basic objects called \_\_\_\_\_.

- |               |                |
|---------------|----------------|
| a. Entities   | b. Relations   |
| c. Attributes | d. Primary key |

19. A \_\_\_\_\_ DBMS is the system if many users can use the system.

- |                      |               |
|----------------------|---------------|
| a. Single user       | b. Multi user |
| c. Anyone of a and b | d. Both a & b |

20. Color of the car & degrees of students are examples of the \_\_\_\_\_ attribute.

- |                  |                 |
|------------------|-----------------|
| a. Null          | b. Derived      |
| c. Single valued | d. Multi valued |

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Course : .....

Semester : ..... Roll No : .....

Enrollment No : ..... Course code : .....

Course Title : .....

Session : ..... 2016-17 ..... Date : .....

**Instructions / Guidelines**

- The paper contains twenty (20) / ten (10) questions.
- The student shall write the answer in the box where it is provided.
- The student shall not overwrite / erase any answer and no mark shall be given for such act.
- Hand over the question paper cum answer sheet (Objective) within the allotted time (20 minutes / 10 minutes) to the invigilator.

| Full Marks | Marks Obtained | Remarks |
|------------|----------------|---------|
| 20         |                |         |

Scrutinizer's Signature

Examiner's Signature

Invigilator's Signature