

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9 Sub. Code :

2	6	0	4	0
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Exam. Code :

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M.Sc. (Information Technology) 2nd Semester
(2056)

ADVANCED DATABASE SYSTEM AND MYSQL

Paper : M.S.-60

Time Allowed : 3 Hours]

[Maximum Marks : 80

Note :- Attempt **one** question each from Sections A to D.
Question No. 9 (Section E) is compulsory. All questions
carry equal marks.

SECTION—A

1. What do you understand by Data Independence? Explain the difference between physical and logical data independence. 16
2. What do you understand by normalization? Explain different types of normal forms. Explain the difference between 3NF and BCNF. 16

SECTION—B

3. What do you understand by Tuple oriented relational calculus? Explain the operators of Tuple oriented relational calculus with examples. 16

4. What do you understand by Concurrency? Explain the working of Locking techniques in detail. 16

SECTION—C

5. What do you understand by MYSQL? Explain the features of MYSQL in detail. 16
6. What do you understand by table? Explain the different commands of MYSQL with proper syntax. 16

SECTION—D

7. What do you mean by Data warehousing? Explain the architecture of data warehouse in detail. 16
8. What do you mean by data mining? Discuss the advantages of data mining. Write down different types of data mining. 16

SECTION—E (Compulsory Question)

9. Write short notes on the following:
- (a) Metadata 2
 - (b) Decision tree 2
 - (c) Sub-query 2
 - (d) Referential integrity 2
 - (e) Primary key 2
 - (f) ACID properties 2
 - (g) Deadlock 2
 - (h) Database schema. 2