

2008

COMPUTER SCIENCE

(Database System)

PAPER—CS/MSC/1201 M1 & M2

Full Marks : 40

Time : 2 hours

The figures in the right-hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

PAPER — CS/MSC/1201 M1

[Marks : 20]

Answer any *four* questions

- 1. Define concurrency control scheme. Briefly explain the two-phase locking protocol. 5**
- 2. What is transaction? Write down the ACID properties of a transaction. 5**

(Turn Over)

3. What is query execution plan? Explain the basic steps for query processing. 5
4. What is data replication? What is the major advantage of data replication in DDBMS. Define data transparency. 5
5. Define deductive database system. What is the difference between homogeneous and heterogeneous database system? 5
6. Define 'data mining' and 'data warehousing'. 5
7. Write short note (any one): 5
 - (i) Client server databases
 - (ii) Mobile database
 - (iii) OODBMS.

PAPER—CS/MS/1201 M2

[Marks : 20]

Answer any *four* questions

1. (a) Write short notes: $1 \frac{1}{2} \times 2$
 - (i) MSIL;
 - (ii) JITers.

- (b) What are the differences between boxing and unboxing? Explain with an example. 2
2. (a) What are the advantages of disconnected objects over connected objects?
- (b) Write down the function of dataprovider. 3 + 2
3. (a) Describe the architecture of a typical asp.net application?
- (b) How asp.net applications works? $2\frac{1}{2} + 2\frac{1}{2}$
4. (a) What are the differences between \$_GET variable and \$_POST variable? Give at least one use.
- (b) Write down the function of session variable. 3 + 2
5. (a) What is variable variable? Explain with an example.
- (b) Describe the differences between numerically indexed arrays and associative arrays. 2 + 3

(a) mysql-query

(b) mysql-fetch-array.