	Utech
Name:	
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Invigilator's Signature :	

# CS/MBIN/SEM-3/MBIN-304/2009-10 2009

# **NETWORKING AND DBMS**

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

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

#### **GROUP - A**

### (Objective Type Questions)

1. Answer the following questions :

 $10 \times 1 = 10$ 

- a) Write integrity rule 1.
- b) Define primary key.
- c) Write SQL to display all the names of persons who are older than 25 years?
- d) What is a composite key?
- e) What is a foreign key?
- f) What do you mean by store and forward protocol?
- g) What is topology?
- h) What is attenuation?
- i) What do you mean by bandwidth?
- j) What is active repeater?

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#### CS/MBIN/SEM-3/MBIN-304/2009-10



#### (Short Answer Type Questions)

Answer any three of the following.



- 2. a) Discuss three levels of architecture of DBMS.
  - b) Write the advantages and disadvantages of DBMS.

5 + 5

- 3. a) Explain Generalization and Specialization.
  - b) Draw an ER diagram for student registration.

5 + 5

- 4. a) Write the CODD commandments.
  - b) Write relational algebras for Union, Intersection and Set difference. 7 + 3
- 5. a) What do you mean by anomalies of a database?
  - b) Define BCNF with suitable example.

5 + 5

## GROUP - C

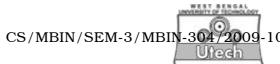
## (Long Answer Type Questions)

Answer any three of the following.

 $3 \times 10 = 30$ 

- 6. a) Write the design issues for the network reference model layers.
  - b) Write the differences between connection oriented and connectionless services. 5 + 5

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- 7. a) Compare satellite and optical fibre.
  - b) Compare pure and slotted aloha.

5 + 5

- 8. Write the names and purposes of OSI reference model layers.10
- 9. a) Write short note on X.25 Networks.
  - b) Explain X.25 frame format with a diagram. 5 + 5

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