



Name : .....

Roll No. : .....

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 × 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 ?

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



**GROUP – B**

**( Short Answer Type Questions )**

Answer any *three* of the following.  $3 \times 10 = 30$

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



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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