SHAHEED BHAGAT SINGH STATE TECHNICAL CAMPUS, FEROZEPUR

ROLL No: | | | | | | | | | | | |

MCA/ 3rd Sem
Database Administration   (RP)
Subject Code: MCA 301
Paper ID : M/18
(2012 batch onwards)   Max Marks: 60

Time allowed: 3 Hrs
Important Instructions:

- **All questions are compulsory**

PART A (2×10)

Q. 1.   Short-Answer Questions:
  (a) What do you mean by database instance?
  (b) What are various types of database failure?
  (c) Write steps to create a new user account.
  (d) What is database schema?
  (e) Explain RAID.
  (f) Define foreign key.
  (g) What is database security?
  (h) What is SQL Server Agent Service?
  (i) What is SQL?
  (j) Define self join.

PART B (8×5)

Q. 2.   Explain client server architecture in detail.   CO1
                                    OR
        Write role and responsibilities of DBA.   CO1

Q. 3.   What do you mean by database replication? Explain.   CO2
                                    OR
        How a DBA implement migration and up gradation strategy? Explain.   CO2

Q. 4.   What do you mean by database security? How is it implemented in database server?   CO3
                                    OR
        Explain different types of failures. Write various backup and recovery strategies.   CO3

Q. 5.   What is performance tuning? Write procedure for performance tuning in detail.   CO3
                                    OR
        Explain process of Monitoring & optimizing the performance of database. How   CO3
        indexes can be used to improve performance?

Q. 6.   What is significance of database encryption? Explain different types of database   CO4
        encryption techniques.
                                    OR
        What is the purpose of GRANT and REVOKE statement? Give syntax and   CO4
        examples.