1. What is an database Access Control ( 4 – 5 Points) and Explain any three types of Access control ( Three points each) – 10 Marks
2. Mention any five major database attacks and explain each in one/two sentences - 10 Marks
3. How do you implement access control security measures for a real time database application? ( 10 points ) - 10 marks
4. What are the five important characteristics of Parallel database - 10 marks
5. What is Parallel DB and how does it help improve Database performance? Explain ( 10 points) - 10 marks
6. Why do we need encryption & Explain any one encryption method which is popularly used in Google, IBM, AMAZON, VMware, Microsoft services? ( 10-12 points) - 10 Marks
7. Why SQL injection is considered as a BAD query? State any three types of SQL Injection Attack Detection and Prevention Methods ( 10 Marks)
8. Find the problem in the following SQL statements & rewrite - (Three points each)
   1. SELECT blood\_tests\_data FROM health\_records WHERE patient\_name = ‘user input user name’;
   2. SELECT users\_travel\_data FROM Travel\_Table WHERE login=’’ UNION SELECT ticket\_id FROM Passenger\_table WHERE passenger\_id= 500 -- AND pass=’’ AND pin=
   3. SELECT student.class

FROM students

WHERE student.dept # IN

SELECT college.dept # FROM college

WHERE college.Loc=‘Hubli’

AND dept.student\* = dept.section

1. MCQ/Fill in the blank/Match the following – 10 Marks
2. Compare any three search optimisation or query optimisation techniques as applied in real time applications of Google, Microsoft, Oracle) . Write your answer in a Table format ( 10 Marks)