UNIVERSITY OF KERALA
SCHOOL OF DISTANCE EDUCATION
IVth SEMESTER BCA ASSIGNMENT

CP1441 Introduction to Information Security

1. Compare substitution ciphers, transposition ciphers.
2. Differentiate IPv4 andIPv6
3. Comparative study of PGP and S/MIME
4. Explain firewall and characteristics of firewall
5. Cyber Crime and the IT Act 2000/2008

CP1442   Visual Tools

1. Explain different tools in VB IDE.
2. What are the properties of collection objects.
3. Explain different loop statements used in VB.
4. Explain about OLE container Control.
5. How errors are handled in VB.

CP1443 Database Management Systems

1. Explain the fundamental operations of relational algebra.
2. Discuss about data dictionary.
3. Discuss tuple relational calculus.
4. Discuss the pitfalls in relational database design.
5. Discuss the referential integrity in detail with example

CP1444 Design And Analysis of Algorithms

1. What are randomized algorithms? Explain.
2. What are NP hard and NP complete problems? Explain.
3. What is back tracking? Explain how 8-queens problem can be solved using backtracking.
4. What are spanning trees? Explain the different algorithms to determine minimum cost spanning tree with examples.
5. Explain the recursive algorithm to find the minimum and maximum element in an array.

CP1445 System Software

1. Explain about SIC machine architecture.
2. Explain different components that can be used when structuring an assembly language program.
3. What do you meant by program relocation?
4. Write an algorithm for absolute Loader. Explain.
5. Explain the purpose and use of LOCCTR AND OPTAB   in assembler.