

School of Distance Education, University of Kerala

Assignment Questions

IIIrd Semester M.Sc Computer Science

DCS31 Data Mining and Warehousing

1. what are the methods for data transformations? Explain.
- 2.Explain about data cube materialization.
- 3.what are the general strategies for data cube computation?Explain.
- 4.Explain the terms
 - a. Web mining
 - b. Text mining
 - c. Spatial and temporal mining

DCS32 Distributed Systems and Cloud Computing

1. Briefly explain NFS and AFS?
2. Explain distributed operating system architecture?
3. What are distributed deadlocks?
4. Write in detail about distributed system models.
5. What are the advantages and disadvantages of cloud-based storage?

DCS33 Information Security

1. With the neat diagram explain working of DES
2. Employ the basic Diffie-Hellman key exchange between two users A and B. They agree on a common prime $q=83$ and a primitive root $\alpha=5$. A has a private key $X_A=6$ and B has a private key $X_B=10$.
 - (a) Find Public Key of A (Y_A) and Public Key of B (Y_B).
 - (b) Compute shared secret key for the Session.
3. Explain different types of Firewalls.
4. Compare IPSec transport mode and tunnel mode.
5. Explain Various Software Flaws and Malwares in detail.

DCS34 Compiler Design

1. Write short notes on functional units of 8085 Micro Processor
2. Write any five branching instructions and explain its operation.
3. Briefly explain Lex package on Unix
4. Describe YACC package in UNIX system
5. Translate the following expression to quadruple, triple and indirect triple

$$a + b \times c / e \uparrow f + b \times c$$

DCS 35 B Digital Image Processing

1. Explain applications of image processing?
2. Explain advantages of frequency domain operations?
3. Explain image compression standards and procedure for JPEG?
4. Explain concepts of image security?
