ASSIGNMENT TOPICS

VI Semester B.Sc. Computer Science(2020Admission)

School of Distance Education

University of Kerala

I. **Introduction to Information Security (CS 1641)**

   1. Write a note on RSA algorithm.
   2. Write a short note on:
      a. malicious software.
      b. DES
      c. Symmetric Encryption
      d. Steganography
   3. Explain about different authentication methods.
   4. Explain about IPSec in detail.
   5. Explain about cybercrime and IT act.

II. **Artificial Intelligence (CS 1642)**
   1. Explain forward and backward chaining and combinatorial explosion based on search processes in AI.
   2. What do you mean by Brute force search in AI? What are its classifications?
   3. Write short note on Alpha-Beta Pruning.
   4. What do you mean by speech synthesis?
   5. Discuss about Dendral in terms of expert systems.

III. **E-Commerce & E-Governance (CS 1643)**

   1. Explain types of e-commerce in detail.
   2. Write about

       a. M-Commerce.

       b. E-Money

       c. E-Auction

       d. LBS

3. Explain IT act (India) and E-commerce.

4. Explain e-payment systems and classification of new payment systems.

5. Discuss e-government and various phases of e-government.

IV.   Data Mining & Data Warehousing (CS 1661.3)

1. Explain the steps in data transformation.

2. Discuss about multi dimensional data model.

3. Write short notes on

       a. Data Preprocessing

       b. Data Cleaning

       c. OLAP

       d. Apriori algorithm

4. Explain the concept of classification. Write classification algorithm in detail.

5. What do you mean by clustering? Explain the categories of clustering.

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