HIMACHAL PRADESH UNIVERSITY, SUMMER HILL, SHIMLA

INTERNATIONAL CENTRE FOR DISTANCE EDUCATION AND OPEN LEARNING

(COMPUTER SCIENCE DEPARTMENT)

ASSIGNMENT No:

Course:	Semester:
Name of Student:	Roll No:
Paper Code:	Paper Title:
Theory/Lab:	Date of Submission:
Session:	Batch:

Signature of Student

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Himachal Pradesh University, Shimla

Assignment

DDS 1st Semester Subject: DDS-101 Fundamentals of Computers and Data Science

1. Differentiate between data and information.
2. What are the characteristics of the computers?
3. What are the output devices and write a short note on their relevance to modern time.
4. How the data science become helpful in detecting frauds?
5. Write in brief 1) Supervised Learning 2) Unsupervised learning.
6. Define classification and clustering.
7. What is Random Access Memory and write about its various types ?

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Assignment

DDS 1st Semester Subject: DDS-102 Fundamentals of Programming Using C

1. Define Data types. What are various data types in C language?
2. What is recursion? What types of recursions are there in C?
3. What are flow charts. What types of symbols are used in flowcharts? What are advantages and limitations of flowcharts?
4. Discuss about various types of operators available in C language.
5. Define the following terms: a). Problem Analysis b). Algorithms.
6. What is meant by a storage classes? Discuss various storage classes available in C?
7. What are decision control structures in C language?
8. Discuss various loop control structures in c language.
9. What are preprocessors in C?
10. Write a brief note on pointers.

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Assignment

DDS 1st Semester Subject: DDS-103 Data Structures

1. Explain types of data structures with examples.
2. Explain queues with example.
3. Differentiate between selection programming and iterative program construct.
4. Explain types of linked list with examples.
5. Write the advantages of doubly linked list over singly linked list.
6. What are stacks? What is their relevance?
7. What are trees? Write different methods of tree traversal.

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Assignment

DDS 1st Semester Subject: DDS-104 DBMS

1. What are the limitations of traditional file-based systems?
2. What is DBMS ? What are its characteristics?
3. Describe three schema architecture of DBMS.
4. List the commands in DDL, DCL and DML.
5. Who is DBA? What are his roles?
6. What are Super key, candidate key and primary key?
7. What is an Entity type?
8. Give a brief explanation of ER diagram

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Assignment

DDS 1st Semester Subject: DDS-151 Data structures using C

1. Write a program for Push operation.
2. Write a program for linear search.
3. Write a program for insertion sort.
4. Write a program to implement stack using arrays.
5. Write a program to implement queue using arrays.

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Assignment

DDS 1st Semester Subject: DDS-152 DBMS Lab

1. Write two DDL commands each for following:
    a. Create with not null, primary key and unique constraints.
    b. Alter
    c. Drop
2. Write two DML commands each for the following:
    a. Insert
    b. Update
    c. Delete
3. Write two DCL commands each for the following:
    a. Grant.
    b. Revoke
4. Write two DQL commands each for the following:
    a. Select
    b. Select with where clause.
    c. Select with AND operator
    d. Select with min() and max() functions
    e. Select with 'IN' and 'BETWEEN'