

CENTRE FOR DISTANCE AND ONLINE EDUCATION

Aligarh Muslim University, Aligarh

Session 2020-2021

Post Graduate Diploma in Computer Programming

DATA STRUCTURES

(PGDCP-01)

ASSIGNMENT

Total Marks: 25

Attempt any two questions.

1. What is Array? What are its applications? Explain different operation perform on array.
2. What is stack and explain different stack operations? Convert the following infix expressions to prefix and postfix:
 - a) $6 + (2 * 2) + 7$
 - b) $(8 / 2) - (3 \% 5)$
 - c) $(5 * 7) - (5 + 7)$
3. What is Binary tree? Draw a full binary tree with 8 nodes such as 14, 58, 55, 26, 24, 10, 8, 16.

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COMPUTER PROGRAMMING USING 'C'

(PGDCP-02)

ASSIGNMENT

Total Marks: 25

Attempt any two questions.

1. Differentiate between Actual Parameters and Formal Parameters.
2. What do you mean by the Scope of the variable? What is the scope of the variables in C?
3. What are static variables and functions?
4. What do you mean by Dangling Pointer Variable in C Programming?

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COMPUTER FUNDAMENTALS AND PC SOFTWARE

(PGDCP-03)

ASSIGNMENT

Total Marks: 25

Attempt any two questions.

1. What is computer? Discuss the future scope of Information Technology?
2. Explain the different feature of MS-Office.
3. What is Algorithm? Explain different types of programming languages.
4. What is a storage device? Discuss its common classification?

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DATA STRUCTURE THROUGH 'C' LANGUAGE

(PGDCP-04)

ASSIGNMENT

Total Marks: 25

Attempt any two questions.

1. What is flowchart? Explain the Asymptomatic notation in brief.
2. What are the main characteristics of C language? Explain difference between while and do-while loop.
3. Write a C program to implementation is continue() function in C? What is the difference between break and continue statement.
4. What is sorting? Explain any two sorting technique with suitable example.

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DATA BASE MANAGEMENT SYSTEM

(PGDCP-05)

ASSIGNMENT

Total Marks: 25

Attempt any two questions.

1. What is the purpose of normalization in DBMS?
2. Explain the concepts of a Primary key and Foreign Key.
3. What are the different types of languages that are available in the DBMS?
4. What is a functional dependency in the DBMS?

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OBJECT ORIENTED PROGRAMMING THROUGH C++

(PGDCP-06)

ASSIGNMENT

Total Marks: 25

Attempt any two questions.

1. Discuss the basic concepts of OOP.
2. What is programming languages? Explain the different generations of programming languages.
3. What is control structure? Explain different control structures in C++.
4. What is function overloading? Explain call by value and call by reference methods.
