

Assignment 1 (ITP203-Theory)

- 1) Perform the 2's complement on Binary Number (**01110**) and note down the result. [1 Mark]
- 2) Perform the 1's complement on (**10001**). [1 Mark]
- 3) You have A = **11010** and B = **101**. Divide A by B and find the **Quotient** and **Reminder**. [1 Mark]
- 4) Convert (**75**)₁₀ into Hexadecimal representation? [1 Mark]
- 5) (**776**)₈ + (**010110111**)₂ = (?)₈. [1 Mark]
- 6) (**10221102.102**)₃ = (?)₉. [1 Mark]
- 7) WAP in C using **While-Loop/Do-While Loop** to find a Fibonacci series of "N" number of terms.
Example:- If N=8, then the Fibonacci Series = 0, 1, 1, 2, 3, 5, 8, 13. [2 Mark]
- 8) WAP in C using **While-Loop/Do-While Loop** to find if a number (any digit) is Armstrong Number.
Syntax:- $abc = a^n + b^n + c^n$ (Example of 3 digit number)
Example:- $153 = 1*1*1 + 5*5*5 + 3*3*3$ [2 Mark]

Note

- a) Individual student is advised to do a self-research/study on **Fibonacci Number Series** and **Armstrong Numbers**.
- b) This Assignment 1 (10 Mark) will be converted into **5%** weighting of CA.
- c) **Submission Dateline: 4th October 2020, 11:00 pm**