

# Texas International College

Mitrapark, Kathmandu  
Department of Computer Science & IT  
BSC (CSIT)

## MID TERM EXAMINATION-2075

Bachelor Level/1<sup>st</sup> Year/1<sup>st</sup> Semester/Science  
Subject: C Programming

Set-B

FM 60

PM 30

Time: 3 hour

Candidates are required to give answers in their own words as far as practicable. Figures in the margin indicate full marks.

### Group A

Attempt any two

[12\*2=24]

1. Explain all types of if Statements with flowchart syntax and examples.  
✓
2. What is looping? Explain the process of looping. Explain exit controlled and entry controlled loop with suitable examples.
3. Explain character test function and conversion functions available in ctype.h header file, with suitable example.

### Group B

Attempt any six

[6\*6=36]

- ✓ 1. Compare between switch statement and else if ladder statement. Write a program to input a number and find the day in a week using switch and ladder statement.
- ✓ 2. Explain ternary operator statement with syntax and examples.
3. WAP to add nth terms of the following series using for loop.  
 $1/1! + 2/2! + 3/3! + \dots + n/n!$
- ✓ 4. WAP to find Fibonacci series upto N<sup>th</sup> terms using all loops.
- ✓ 5. WAP to read a number & find whether it is palindrome or not using all loops.
6. Write a program that checks given number is Armstrong or not using while loop, do-while and for loop.
- ✓ 7. WAP that will read two numbers, display the following menu:  
**Menu**  
a. Summation  
b. Sum of squares  
c. Sum of cubes  
d. Product  
e. exit  
And perform task as per user's choice (use else if ladder statement)