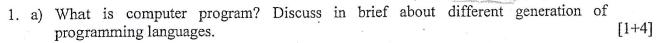
## 01 ; TRIBHUVAN UNIVERSITY INSTITUTE OF ENGINEERING

## Examination Control Division 2075 Ashwin

Exam.	Harris II		
Level	BE	Full Marks	80
Programme	All (Except B. Arch)	Pass Marks	32
Year / Part	I/I	Time	3 hrs.

## Subject: - Computer Programming (CT401)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt <u>All</u> questions.
- ✓ The figures in the margin indicate Full Marks.
- ✓ Assume suitable data if necessary.



- b) Why is algorithm and flow chart development important in problem solving? Write an algorithm and draw flow chart to test a number entered by user whether it is even or not.

  [2+3]
- 2. a) What is the identifier? What are the ways to give value to variable? Explain with example? [1+2+1]
  - b) Explain about input and output function available in C with syntax and example of each part. [2+2+2]
- 3. a) Write algorithm, draw flow chart and program to input a number check it is

  Armstrong or not. [2+2+2]
- b) What do you mean by selective and repetive statement? Why do we need break and continue statement? [2+2]
  - 4. a) What do you mean by "call by value and call by reference"? Explain it with suitable example.
    - b) Can we pass whole array element from the function? Write the program to pass an array to function and sort them. [6]
  - 5. a) Write a program that finds the largest word in a given sentence. [4]
    - b) Differentiate between the methods of passing argument to function with example.

      What are their advantages and disadvantages?

      [6]
  - 6. What is structure? Why is it necessary? Write a program to add two distances given in feet and inch format using structure. [1+1+6]
  - 7. a) What is null pointer? What will be the output of following program, explain. [1+3]

#include<stdio.h>
int main() {
 if(!NULL)
 printf("C programming is easy");
 else
 printf("C programming is not easy");
 return 0;
}

- b) Write a program to calculate the length of string without using string handling function.
- 8. A file name employee.txt stores employee name, employee id and employee salary. Write a program to display the detail of all employees in the order of their salary.
- 9. Write a program in FORTRAN to read 10 integers from user and short them in ascending order and display it in screen.

[6]

[4]

[8]

[4]