JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- October 2018

B.Tech (Backlog Students)

COURSE CODE: 10B11CI111   MAX. MARKS: 25

COURSE NAME: Introduction to Computer Programming

COURSE CREDITS: 03   MAX. TIME: 1.5 Hrs

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

Q. 1 (5 Marks)
  I.   *(1 Mark)* What is goto statement? Write its disadvantages?
  II. *(2 Marks)* Differentiate between Explicit and Implicit type casting. Explain with the help of an example.
  III. *(1 Mark)* Explain the difference between '=' and '==' operator with the help of an example?
  IV. *(1 Mark)* Give the general syntax of conditional operator in c.

Q.2 (5 Marks)
  I.   *(2 Marks)* Write a C Program to print the Fibonacci series up to 34..
  II. *(2 Mark)* What is the difference between while and do while loop. Explain with the help of a flow chart.
  III. *(1 Mark)* Explain break and continue statements using syntax and example.

Q.3 (5 Marks) Write a program to print out all Armstrong numbers between 1 and 500. If sum of cubes of all digit of the number is equal to the number itself, then the number is called an Armstrong number. For example, 153= (1*1*1)+(5*5*5)+(3*3*3).

Q.4 (5 Marks)
  I.   *(2 Marks)* What is function argument, function call and return value. Explain with the help of an example.
  II. *(3 Marks)* Write a function which receives 2 integers from main (). Do addition, subtraction, multiplication and division of these two integers and print the result in main ().

Q.5 (5 Marks)
  I.   *(2 Marks)* Write a program to check whether a triangle is valid or not, when the three angles of triangle are entered through the keyboard. A triangle is valid if the sum of all three angles is equal to 180 degrees.
  II. *(3 Marks)* Write a program to read weekday number and print weekday name using switch case statement.