Name, Surname : Number :

Course Code : SEN114

Course Name : Computer Programming I

Exam : ● Midterm ○ Make-up ○ Final

Date :17.11.2016

Please make sure to write your name and student number on each paper that you have used

Question Number	1(30p)	2(20p)	3(10p)	4(30p)	5(10p)	6(1p)	Total
Mark							

Note:

- 1-Exam duration is 60 minutes only.
- 2- You dont get any other paper. Please use your paper efficiently!
- 3-You are not permitted to carry your mobile phone into the exam venue even if it is switched off.

1-(30p)computes compound interest using the for 2- (20p)Write a C program to calculate a statement. Consider the following problem greatest common divisor(gcd) of integer x and y.(GCD is the largest integer that evenly statement: Example: A person invests \$1000.00 in a divides both x and y.) savings account yielding 5% interest. Assuming that all interest is left on _____ deposit in the account, calculate and print 3-(10p)Write a program that the amount of money in the account at the temperatures Celsius to fahrenheit end of each year for 10 years. Use the (hint:F=9/5C + 32)following formula for determining these amounts: $a = p(1+r)^n$ 4-(30p) $f(x) = \sum_{k=0}^{\infty} (k + x^2)$ Where $\underline{\mathbf{p}}$ is the original amount invested (i.e.,the principal) $\underline{\boldsymbol{r}}$ is the annual interest rate n is the number of years $\overline{\mathbf{a}}$ is the amount on deposit at the end of Write a program to calculate result of f(x)the nth year. function. Value of "x" and "Z" are entered by "p","n" and "r" are entered by user to keyboard. calculate "a". According to example, Output Shoud be like: 5-(10p) Write a average of "n" numbers. "n" is Amount on deposit Year entered by keyboard. (Hint:numbers and result 1050.00 1 should be float) 2 1102.50 3 1157.63 4 1215.51 6-(1p)-Write a program that write your name and 1276.28 surname on the screen!! 1340.10 6 7 1407.10 8 1477.46 9 1551.33 1628.89

