**“C programming language” Exam-04**

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| ***Ex1.Write the output of this code [ 1pt ]*** | ***Ex2.Write the output of this code [ 1pt ]*** |
| #include <stdio.h> | #include <stdio.h> |
| int main() | #include <math.h> |
| { | int main() |
| int num=12, s=7,i; | { |
| for(i=1;i<num;i++){ | int a=4, b=25; float c; |
| if(num%i==0) | **if(a>b)** c=sqrt(b); |
| s+=i; | **else** **if(b>a)** c=sqrt(a\*b); |
| } | **else** c=(a\*a)+b; |
| printf(“%d”,a) | printf("%.2f", c); |
| } | } |

**Exercise 3**. Write the correct answers of these questions: [ 3 pts ]

**i)** Which of these loops is correct, when the condition is false it will work at least once?

1. while b) do-while c)for

**ii)** In C programming, when does the compiler stop it’s repetition? When it see…

1. continue b) break c)while d) float e)switch-case

**iii)** Write the difference between break and continue about 3 or 4 lines.

**Exercise 4.**Write a C program that counts the first 30 terms these series and prints it: [ 2 pts]

**Series: 1\*2 + 3\*4 + 5\*6 + …**

**Exercise 5.** Write the output of this code. [ 1 pt ]

#include <stdio.h>

int main() {

int i;

for(i=7; i<0; i--){

printf("%3d", i);

}

}

**Exercise 6.** Write a c program to find and print three-digit numbers and these all digits are different. [ 3 pts ]

For example: 102,103,104,105,......,985,986,987 and etc.

**Exercise 7.** Write a C program that takes values of 20 students then gives the average of class and gives the the largest and smallest point [ 2 pts ]

**Exercise 8.** Suppose that fow now Azerbaijan’s population is 9.845.784. It increases 1.35% per year. Write a C program that calculates when(year) it will be over the 10.5 million people? [ 3pts ]

**Exercise 9.** Write a C program that calculates square root of given number. You are not allowed to use sqrt() function! [ 2 pts ]

**Exercise 10.** Write a C program that swaps(yerdeyisme) two given integer and prints it.

You are not allowe to use third variable.You have to use 2 variable! [ 2 pts ]