

EAST WEST UNIVERSITY

Department of Computer Science and Engineering B.Sc. in Computer Science and Engineering Program Mid Term II Examination, Spring 2020 Semester

Course: CSE 103 Structured Programming, Section-8

Instructor: Maheen Islam, PhD, Associate Professor, CSE Department

Full Marks: 30 (20 will be counted for final grading)

printf("%d",x[k]);

Time: 1 Hour and 20 Minutes

Note: There are SIX questions, answer ALL of them. Course Outcome (CO), Cognitive Level and Mark of each question are mentioned at the right margin.

1. What will be the output of the following program segment? [CO2,C2, int x[10],k,j; Mark: 5] for(k=0;k<=6;k+=2) { x[k]=3*k; x[k+1]=k+2; } for(j=0;j<=6;j+=3) x[j]=x[j]+x[j+1]+1; for(k=0;k<=6;++k)

- **2. Write** a C program which input some students' marks into an array and find how many [CO2,C3, of them scored above average marks.

 [CO2,C3, Mark: 5]
- **Write** a C program which inputs **n** integer values and prints the factors of each number. [CO1,C3, Mark: 5]
- 4. Karim is owner of a small fruit stand. He stores his total monthly income and expense in a notebook and calculates total savings at the end of the year. Write a C program to store karim's 12 month's income in an array **A**, expense in an array **B** and then calculate and store the savings of each month in another array C. Your program should output karim's monthly and total yearly savings.
- **5.** Write a C program to input two matrices and calculate the difference of them. [CO2,C3, Mark: 5]
- **6. Write** a C program which input 10 students' marks for 3 class tests into a two-dimensional array and find how many of them scored above average marks in each of the class test. [CO2,C3, dimensional array and find how many of them scored above average marks in each of the class test.