Computer Science Department

College of Information Technology

Computer programming II (131102)

First Exam

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1.Choose the best answer for the questions ():

Given

char a[]="ali";

char \*p;

for( p=a; \*p; p++); --p;

1. what does cout<<a[p-a]; print?

a. li b. l c. i d. It is a compiler error

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Given

char name[ ] = "The first text";

char \*p = &name[2];

char c;

Answer questions (3 – 5):

3) The output of the following statement is:

cout<<p+3;

a) first text b) f

c) irst text d) none of the above

4) Which of the following statements produces syntax error?

a) cout<<(c='a'); b) c = \*p;

d) p = \*c; d) all of the above

5) The output of the following statements is:

for( ;p<&name[9]; p=p+2 ) if (\*p> ‘a’) cout<<\*p;

a) efrt b) fir

c) first d) first exam

6) What is the output of the following?

void fun(int \*a, int \*b){

\*a=\*a+\*b;

\*b=\*a-\*b;

\*a=\*a-\*b;

}

void main()

{ int x=10,y=20;

fun(&x,&y);

cout<<"x= "<<x<<" "<<"y= "<<y;

}

a) x = 20 y = 10 b) x = 10 y = 20

c) x = 20 y = -10 d) x = 10 y = -10

Given

int x[5]={2,3,4,1,5};

int \*ptr, y;

ptr = x + 4;

y = ptr - x;

Answer questions (7-8):

7) Which of the following is invalid?

a) (\*x)++; b) \*(x++); c) ++\*x; d) answer a and c

8) What does the statement cout<<y; print?

a) -3 b) 0 c) 4+sizeof(int) d) 4

(3 pnts)

Q2. Given:

double a[ ][4] = { {3,4,5}, {5,2,4,4}, {7}};

double t=40;

1. Define a pointer called p1, and make it point to t.

b. Set the cell located in the third row, third column to 100.

(4 pnts)

Q3. Using pointer notation only, write a function that takes a string S and a character C as parameters. The function must check if character C is found in string S, and returns:

* The index of the first occurrence of C in S if it is found,
* Returns -1 otherwise.

Note: Do NOT use array notation [ ]

(4 pnts)

Q3. Given

char X[20[30]={…..};//contains 20 names each on one row

Write a code segment to print each name starts and ends with character ‘d’ in X