Ministry of Higher Education & Scientific Research

University of Technology

Communication Eng. Department

2nd Semester - Final Examination (2016/2017) uter Science II Date: / / 2017

Subject: Computer Science II Division: Wireless & Optical

Year: First

Time: 3 Hrs.

Examiner: Dr. Salwa A. Alagha

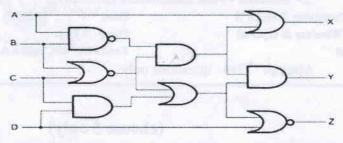


Attempt Five questions only

Q1:		
A. Fill in the blanks:	(choose 5 only)	
1. With (floor) function in C++, we use	standard function.	
2. In C++, the total size in bytes for array (double B[7][3]) in the memory is equal		
3. With (cout) function in C++, we use	_ standard function.	
4. With (strncat) function in C++, we use	standard function.	
5. In C++, the total elements for array (int A[5][3]) is equal	
6. To copy string 1 over string 2, we use		
7. With $\sqrt{\frac{1}{x}}$ function in C++, we uses	tandard function.	(5 marks)
B. Write a program in C++ language to find the	multiplication of elements of t	he 1D array
B, which have 30 elements entering from keybox	ard.	(5 marks)
Q2:		
A. Write a program in C++ language to find and	d print the transpose of array size	ze (3×4).
$A = \begin{bmatrix} 2 & 8 & 1 \\ 3 & 5 & 2 \\ -5 & -9 & 33 \end{bmatrix}$	4	
A= 3 5 2	2 -4	
		(5 marks)
B. Write a program in C++ language to create N between two numbers.	Min function to find the minimu	im number (5 marks)
Q3:		
A. Write a program in C++ language to obtain a	and print on the screen, the cou	nter from 5
to 8 increment by 0.3, by using do-while statem	ent.	(5 marks)
B. Write the result of C++ program that appearing	g on the screen of computer after	r execution:
# include <iostream.h></iostream.h>		(5 marks)
# include <conio.h></conio.h>		
main()		
{		
float x=8, M=1;		
do{		
cout< <x<<endl;< td=""><td>No of significant 410 mil margins</td><td></td></x<<endl;<>	No of significant 410 mil margins	
M*=x;	red and a little to (V) to state tell	Interpretation and
x = 0.7;		
} while (x>=1);		
<pre>cout<<"The multiplication is = "<<m;< pre=""></m;<></pre>		
getch();		

04:

A. Write a program in C++ language to obtain and print on the screen the output of the logic circuit below, then shift A to 7 bits to left, and shift C to 4 bits to right].



B. Write a program in C++ language to obtain and print the sum of elements of array, which values of elements equal to cubic index of array one dimension size 10. (5 marks)

05:

A. Write a program in C++ language to print on the screen these sentences:

love Iraq

Iraq is our country. We love Iraq

We love our country. We love Iraq

, by using these strings in the program (Iraq is our country.), (We love Iraq). (5 marks)

B. Write a program in C++ language to obtain and print on the screen, the value of (Y) for equation below, for values of x: (5 - 10), by using while statement.

$$Y = \frac{6}{x^4} + \frac{9}{x^6} - \frac{12}{x^8} + \frac{15}{x^{10}}$$

06:

A. Re-write the C++ program below after correcting the errors.

#include<iostream>

#include<conio.h>

main

for(i=1; 1 <= 10, i++);

 $y=i/3+\sqrt{i}$;

cout<<"y is equal = ">>y<<endl;

getch();

B. Write a program in C++ language to obtain the equation below for value of x:(20-60), and print the result of (Y) on screen, by using for statement. (5 marks)

$$Y = \sum_{60}^{20} \cos^{-1} x - \sqrt{\frac{x-2}{2} + \log x} |x^3 - 3|$$

Good Luck

