

الإسم الرقم

أجب عن جميع الأسئلة
ورقة الإمتحان تشتمل على 8 صفحات

Question One(10marks):

What the value of the variable **Z** in the following expressions.

ماهى قيمة المتغير **Z** فى التعابير التالية

<code>int x= 8,y=5 ; Z = ++x%y-- ;</code>	<code>Z =</code>
<code>int x=8,y=5 ; Z = --x + y++ ;</code>	<code>Z =</code>
<code>intZ=5 , y = 3 ; Z+ = y ;</code>	<code>Z =</code>
<code>int x=6 , y = 2 ; Z = x+4 * y++ ;</code>	<code>Z =</code>
<code>int x=3 , y = 7 ; Z = x*5% y ;</code>	<code>Z =</code>
<code>int x=9 , y =5 , z=2 Z= x% y% z ;</code>	<code>Z =</code>
<code>int x = 13; int y = 6; int Z = x&y;</code>	<code>Z =</code>
<code>int value = 7; intshiftcount = 2 int Z = value <<shiftcount;</code>	<code>Z =</code>
<code>int x=4,y=2,w=6,v=4; int Z= x+v-y*w/2;</code>	<code>Z =</code>
<code>Z = (10>8 && 9>7)&&(10<8 7<8)</code>	<code>Z =</code>

Question Two (15 marks):

1. Each statement in the following code contains an error. Rewrite the code after correct the errors.
 (10 marks (Each line 1 mark))

كل جملة في الكود التالي تحتوى على خطأ. أعد كتابة الكود بعد تعديل الأخطاء

Code Contains Errors	Correct Code
<pre>#include<stdoi.h> #include<ctype> char letter void Main() {; print("enter character \n\n"); letter=getchar(%c); letter=toupper(); printf("\n the letter = %c%c",letter); };</pre>	<p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>

2. Given the following declaration: (5 marks)

```
intnum[5]={6,9,3,2,1};
```

- a. Add 5 to the element in index 2 from num array and assign the result in same index.

.....

.....

- b. Multiple 3 to the element in index 1 from num array and assign the result in index 4.

.....

.....

- c. Add 10 to the first element from num array and assign the result in x variable.

.....

.....

- d. Print first and last element from num array in separated line.

.....

.....

- e. Print all elements from num array using for loop.

.....

.....

Question Three (20 marks):

Write the output of the following Codes, if there is no output write **nothing**.

أكتب المخرج للاكواد التالية، اذا كان لا يوجد مخرج أكتب **nothing**

Codes	Output(المخرج)
1. printf("This is\b\bCprogram exam");	
2. int x=33; printf("%d",abs(x));	
3. /* print area of a circle */	
4. int x=8; float y=4.3; char ch='M'; printf("%d *%f *%c",x,y,ch);	
5. int no; printf("enter the value of number1 "); scanf("%d",&no);	
6. int x=0,y=8; x = y > 7 ? 25 : 50; printf("x = %d", x);	
7. int count; for(count = 1 ; count <= 5 ; count++) printf("%d", count); printf("*****");	
8. int i; for(i = 1; i <= 10; i++) { if(i==5) continue; printf(" %d ",i); }	
9. inti,j,k; for(i=1 ; i<= 4 ; i++) { for(j=4; j>=i ; j--) //printf(""); for(k=1 ; k<=i ; k++) //printf("*"); //printf("\n"); }	
10. for (y = 0; y <= 2; y++) num[x][y] = (x + y);	

Question Four (20 marks):

1. Indicate whether the sentence or statement is True (T) or False (F)(10 marks)

1. A computer program is a collection of the instructions necessary to solve a specific problem	()
2. Directives are an instruction to the compiler to make or do something, and all directives begin with # sign.	()
3. Library functions are the built in functions that are accompanied along with the C compiler	()
4. A variable is a named location in memory that is used to hold a value, this value can be modified by the program	()
5. Keywords are the words whose meaning has already been explained to the C compiler	()
6. An expression is set of variables, operators, expressions that evaluates to a single value. The value may be a number, letter, string or a logical value.	()
7. Loop is a group of instructions the computer executes repeatedly until a certain condition is reached	()
8. An array is a collection of variables of the same type that are referred to through a common name. A specific element in an array is accessed by an index	()
9. In two dimension array an index value is an integer that's written after the array name between two square brackets, one for row number, and other for column number.	()
10. String is simply an array of characters terminated by a null (\0).	()

2. Match The Number of (A) with (B): (10 marks)

(A)	(B)	Number of (A)
1. Successful Compiling	case	()
2. Successful Linking	math.h	()
3. Conditional operator	Executable file (.exe)	()
4. Switch statement	stdlib.h	()
5. Label	Constant	()
6. exit()	Object files (.obj)	()
7. sqrt()	ctype.h	()
8. isdigit()	Logical error	()
9. #define	goto	()
10. Runtime error	Decision making	()
11. #include		
12. Syntax error		

Question Five(10 marks):

Put a circle around the number of the correct answer:

1. C language was invented and first implemented by
 - a) Dennis Ritchie
 - b) Martin Richards
 - c) Ken Thompson
 - d) Lucia Forde

2. Header files are located in the path
 - a) C:\TC\INCLUDE
 - b) C:\TC\HEADER
 - c) C:\TC\HEADERFILES
 - d) All answers correct

3. is the only function that all C programs must contain.
 - a) main
 - b) clrscr
 - c) getch
 - d) #include<stdio.h>

4. Not one of reserved words.
 - a) auto
 - b) letter
 - c) default
 - d) goto

5. is most suitable data type for storing a number 355
 - a) double
 - b) float
 - c) long
 - d) int

6. isternary operator in C language.
 - a) ++
 - b) %
 - c) -=
 - d) ?:

7. Not one of <conio.h> functions.
 - a) getchar()
 - b) getche()
 - c) getch()
 - d) clrscr()

8. is not a bitwise operation
 - a) &
 - b) !
 - c) |
 - d) ^

9. The keys SHIFT + INS from keyboard used to.....in C program editor.

- a) Paste text
- b) Copy text
- c) Cut text
- d) Execute C program

10. All program statements in C must be terminated by a

- a) colon
- b) semicolon
- c) dot
- d) All answers wrong

Question Six(25 marks):

1. Write C program ask user to enter one character from keyboard. Then program print the character on screen
(**don't use the header file <stdio.h>**) (3 marks)

أكتب برنامج بلغة C يسمح للمستخدم بإدخال حرف واحد من لوحة المفاتيح. يقوم البرنامج بطباعة الحرف على الشاشة (**لا تستخدم ملف الترويسة <stdio.h>**)

2. Write C program ask user to enter number if the value of the number is equal zero print the message "number is equal zero "(3 marks)

أكتب برنامج بلغة C يسمح للمستخدم بإدخال رقم اذا كانت قيمة الرقم تساوى صفر يطبع الرسالة اعلاه

3. Using library functions write C program give the following output.(4 marks)

باستخدام الدوال المكتبية أكتب برنامج بلغة C يعطى المخرج التالي

Enter your name: Ali Ali
Your name contain 7 characters

4. Write C program to print the small letter from 'a' to 'z' and print the capital letter from 'Z' to 'A'.
(4 marks)

أكتب برنامج بلغة C لطباعة الحروف الصغيرة من 'a' to 'z' ويطبع الحروف الكبيرة من 'Z' to 'A'

5. Using do-while loop write C program run the following message forever

” **This loop will run forever** ”(4 marks)

باستخدام حلقة do-while أكتب برنامج بلغة C يقوم بتنفيذ الجملة اعلاة الى ما لانهاية

6. Write C program to display the summation of each row in two-dimension array of three rows and three columns, for example if you input values like the figure below(7 marks)

2	8	7
5	5	1
4	3	9

The output should like this:

17
11
16

Good Luck,,,,,,,,,