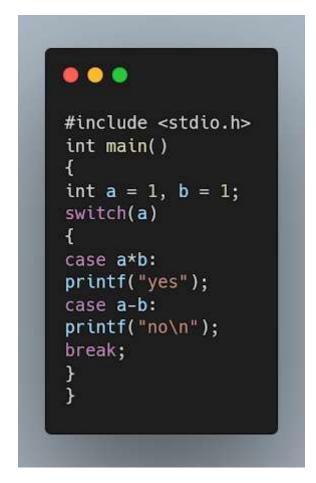
EmbeddedC_Q	uestiones_May_2022 إجمالي النقاط 36/45
updated (April 2022)	
	عنوان بريد الكتروني * emad2014127@gmail.com
0 من إجمالي 0 نقطة	
	* Name 
36 من إجمالي 45 نقطة	Quiz Questions

1/1

\*? Q36) What is the output of this C code 🗸



s (

0

compiler error

yes no

\* Q25) In TWI which address has higher priority 
Address contain more zeros in LSB 
Address contain more ones in LSB 
Address contain more zeros in MSB 
Address contain more ones in MSB 

Address contain more ones in MSB 

Address contain more zeros in MSB 

Address contain more zeros in MSB

\*? Q33) What is the output of this C code 🗸 1/1 extern int x; int main() x = 7; printf("%d\n", x); return 0; } Compiler error Linker error Runtime error

\*? Q34) What is the output of this C code 🗸 1/1 #include <stdio.h> int x = 5; void main() { int x = 3; m(); printf("%d",x); void m() x = 8;n(); void n() printf("%d",x); } 53

1/1*	Q27) In SPI communication protocol (daisy chain connections), the number of slaves micro controllers	<b>✓</b>
	29	0
	Depending on GPIO pins number	0
	32	0
<b>~</b>	Doesn't depend on GPIO pins number	•
0/1	* " Q23) Which communication protocol bus called "and gated bus	×
	I2C	0
	SPI	0
	UART	0
×	Parallels Communications	
	الصحيحة	الإجابة
	I2C	•
1/1	* Q7) Global variable and local variable with the same name	<b>✓</b>
	Compiler Error	0
	Linker Error	0
	Runtime Error	0
<b>~</b>	No Error	•

```
?Q10) What is the output of the following code
1/1
                                                  assuming int size -> 4 bytes//
                                                             <include <stdio.h#
                                                             <include <stdlib.h#
                                                                        }struct a
                                                               ;unsigned char x
                                                                 ;unsigned int y
                                                               ;unsigned char z
                                                                              ;b{
                                                                       ()int main
                                                          ;printf("%d",sizeof(b))
                                                                        ;return 0
```

1/1\* Q21) In 8-bit timer, To get a specific time we need 31,250 ticks

What is the remainder ticks we have to start counting from it to get the
?accurate time

9

122

18

256

\*: Q2) In a file, the scope of this variable is

All files

All static functions inside this file

All static functions

Only in the file

1/1 \* ? Q39) What will be the output of the following code 🗸 #include <stdio.h> struct data { int d: 5; int m: 4; int y; **}**; int main() struct data dt = { 31, 12, 2014 }; printf("Data is %d/%d/%d", dt.d, dt.m, dt.y); return 0; } Date is 31/12/2014 Date is -1/-4/2014 Date is 1/4/2014 Date is -31/-12/2014

1/1

\* .Q31) Choose the correct Answer 🗸



Error: invalid parameter in function run\_cb().

Error: invalid function call fb = cb;

No error and prints "Learn-In-Depth".

No error and prints nothing.

```
* Q22) I2C communication protocol 
Full Duplex 
Pair to Pair 
Asynchronous 
Half Duplex 
Half Duplex
```

```
* ? Q35) What is the output of this C code 🗸
1/1
                                       int main()
                                            short x = 30000;
                                            short y = 40000;
                                            int z = x+y;
                                            printf("%d", z);
                                            return 0;
                                                         z > 70000
                                                         z < 70000
                                                         z = 70000
```

1/1	* = Q19) The physical address of any register	<b>✓</b>
<b>✓</b>	Offset Address + Base Address	•
	Offset Address - Base Address	$\bigcirc$
	Base Address - Offset Address	$\bigcirc$
	Offset Address	0
1/1 *	Q14) What is the output of the following code <include ("hello")="" ("hi")="" ()int="" (x="-2)" 0="" ;int="" ;printf="" ;return="" <include="" <stdio.h#="" <stdlib.h#="" else="" if="" main="" td="" x="4" {<="" }=""><td>✓</td></include>	✓
	hi	$\bigcirc$
<b>✓</b>	hello	•
	hihello	$\bigcirc$
	hellohi	0

1/1	* Q30) We consider it the core of operating system	<b>✓</b>
<b>~</b>	Kernel	<b>()</b>
	Scheduler	0
	NVIC	$\bigcirc$
	Task	0
1/1*	Q29) In a real time operating system any task could be in one of these status	<b>✓</b>
	Ready	$\bigcirc$
	Running	0
	Block	0
<b>~</b>	All of the above	•
1/1*	Q26) In SPI communication protocol, the master select a specific slave :by	<b>✓</b>
<b>✓</b>	Make SS pin LOW	•
	Make SS pin HIGH	0
	Make MOSI pin LOW	0
	Send slave address	0

1/1 *	?Q9) What is the output of the following code	<b>✓</b>
	<include <stdio.h#<="" td=""><td></td></include>	
	<include <stdlib.h#<="" td=""><td></td></include>	
	()int main	
	}	
	;int*(p)[2]	
	;return 0	
	}	
	Array of two integer elements	0
	Pointer to array of two integer elements	0
<b>✓</b>	Array of two pointers to integers	•
	Syntax error	0

```
?Q11) How many padding bytes in the following code
0/1
                                                 assuming int size -> 4 bytes//
                                                            <include <stdio.h#
                                                            <include <stdlib.h#
                                                            paragma pack(2)#
                                                                      }struct a
                                                              ;unsigned char x
                                                                ;unsigned int y
                                                              ;unsigned char z
                                                                            ;b{
                                                                      ()int main
                                                                      ;return 0
 X
                                                                         الإجابة الصحيحة
```

\*? Q45) What will be the output of the following C code 🗸 1/1 int\* get\_current\_ptr(int B) int A=6; if(B==4) A=2\*B; return &A; } int main() int\* curr\_ptr = get\_current\_ptr(4); printf("%d\n", \*curr\_ptr); return 0; } Runtime Error Compilation Error

\*? Q40) What will be the output of the following C code 🗸 1/1 int main() { int a[5]={5,1,15,20,25}; int i,j,m; i=++a[1]; j=a[1]++; m=a[i++]; printf("%d, %d, %d", i, j, m); return 0; } 2, 3, 20 1, 2, 5 3, 2, 15 2, 1, 15

\*.Q32) Choose the correct Answer 🗸 1/1 int foo (void) int x = 5; static int y = x; return y; Error: Lvalue required Error: Rvalue required Error: Initializer element is not constant foo function returns 5

```
*? Q44) What will be the output of the following C code 🗸
1/1
                            int main()
                                 unsigned long int a=5;
                                 unsigned long int *b=&a;
                                 unsigned long int c=*b;
                                 a=7;
                                 printf("%lu\t %lu", *b, c);
                                 return 0;
                            }
                                                                7 5
                                                                5 5
                                                                57
                                                            Option 5
                 * Q24) Which from the following causes starvation in TWI 🗸
1/1
                                                      Clock Stretching
                                                          Arbitration
                                                       Stop Condition
                                                             A and C
```

\*? Q38) What will be the output of the following C code 🗸 1/1 S1) A = 15;Both modify the value of the variable to 15. S1 in not valid while S1 is correct. S1 is correct while S2 will change the address only. We can't modify the value of A variable. \*: Q28) The watchdog timer refresh time should be 🗸 1/1 < watchdog timer window time > watchdog timer window time = watchdog timer window time >= watchdog timer window time

* Q5) The keyword static affects on variable X	0/1	e keyword static affects on	riable 🗙
Scope O			Scope 🔘
Life time	×	1	e time
No effect		N	effect (
It depends		It o	pends 🔘
الإجابة الصحيحة			الإجابة الصحيحة
It depends		It	pends 🔘
التعليقات			التعليقات
Static global variables and functions are also possible in C/C++. The purpose of these is .to limit scope of a variable or function to a file	S		
* Q20) Select the right formula to set bit (4) in a register called x 🗸	1/1	la to set bit (4) in a register	lled x ✓
y = (y >> 4) & 1		y = (y :	4) & 1

x = (1 >> 4) & x

x = (x << 4) | 1

x = (1 << 4) | x

EmbeddedC\_Questiones\_May\_2022 \* Q6) How to create a variable without allocate space in RAM 1/1 Make it constant local Make it static local Make it constant global Make it static global Q13) What is the output of the following code 1/1 Assuming int size = 4 bytes // Assuming address bus 4 bytes // Assuming x stored in byte with address (00) // <include <stdio.h# <include <std|ib.h# ()int main } ;char x=12 ;int\*ptr=&x ;++ptr\* ;printf("x = %d, ptr = %d\n",x,ptr) ;return 0 {

```
x = 13, ptr = 00
```

$$x = 13$$
, ptr = 01

0/1*	Q18) In ADC if your step size is 15 milli volt, what is the ADC reading if the analog input pin read 50 milli volt
×	3
	4 🔘
	15 🔾
	50
	الإجابة الصحيحة
	4 💿

0/1 \* ? Q38) What will be the output of the following C code ★

```
#include <stdio.h>
int* func(void)
{
    int a = 5;
    int *p = &a;
    return p;
}
int main()
{
    int x = 10;
    int b = *(func());
    printf("%d\n", b+x);
    return 0;
}
```

X Segmentation fault

15 ()

Garbage Value

Runtime error

الإجابة الصحيحة

15

0/1	*: Q3) One of the following is forbidden in embedded systems X
	Continue O
	Break 🔘
×	Inline function
	Extern O
	الإجابة الصحيحة
	Continue

```
Q12) What is the output of the following code
0/1
                                                  Assuming int size = 4 bytes //
                                               Assuming address bus 4 bytes //
                                 Assuming x stored in byte with address (00) //
                                                              <include <stdio.h#
                                                             <include <stdlib.h#
                                                                       ()int main
                                                                      ;char x=12
                                                                    ;char*ptr=&x
                                                                          ;++ptr*
                                               ;printf("x = %d, ptr = %d\n",x,ptr)
                                                                        ;return 0
                                                                  x = 13, ptr = 00
                                                                  x = 12, ptr = 01
                                                                  x = 12, ptr = 04
 X
                                                                  x = 13, ptr = 01
                                                                           الإجابة الصحيحة
                                                                  x = 12, ptr = 01
```

0/1 \* ? Q41) What will be the output of the following C code ★

```
#include <stdio.h>

struct marks
{
    int a:3;
    int b:3;
    int c:2;
};

int main()
{
    struct marks m = {2, -6, 5};
    printf("%d, %d\n", sizeof(m), *((int*)&m));
    return 0;
}
```

**X** 4, 82 •

4, 65050

4, garbage value

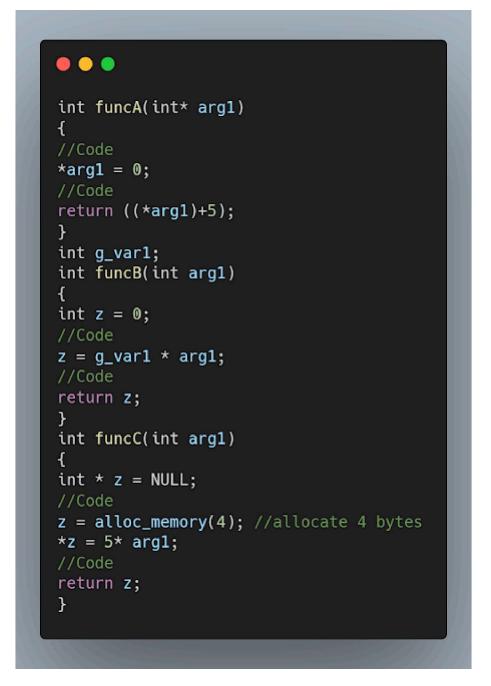
1,82

الإجابة الصحيحة

4, garbage value

1/1	★ Q17) Two interrupts at the same time in Atmega32
<b>✓</b>	CPU serve the higher priority according to vector table
	CPU serve the interrupt from hardware source
	Runtime error
	CPU serve the interrupt from software source

\*? Q37) Which function will works well X



X None 

funcA & func 

funcA & funcC 

funcA & funcB & funcC 

funcA & funB 

liquid liqui

funcA & funcB & funcC

1/1\* Q16) Calculate over\_flow\_time of a 8 bit timer connected to 20 MHz frequency

50 nano seconds 12800 micro seconds 12800 nano seconds 12800 nano seconds 50 micro seconds

1/1 \* ? Q43) What will be the output of the following C code 🗸

```
struct data {
   int d: 5;
   int m: 4;
   int y;
};
int main()
{
   printf("Size of data is %lu bytes\n", sizeof(struct data));
   return 0;
}
```

× 8 **©** 

12

6

2 (

1/1	* Q4) What is the size of int <
	1 Byte
	2 Bytes
	4 Bytes
<b>✓</b>	Compiler Dependent
1/1*	Q1) If you push in the stack the following numbers -> 1,8,4,6 Which ?number pop first
	1 ()
	8 🔘
	4 🔘
<b>~</b>	6

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