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0/1 An example of core peripherals in an ARM based microcontroller -1 ✖

✖

RCC ☒

DMA ☐

MPU ☐

None of the previous ☐

الإجابة الصحيحة

MPU ☒

1/1 The peripheral that is used as the reset manager is called -2 ✔

ICD ☐

AHB ☐

MPU ☐

✔

None of the previous ☒

1/1 When HSE is configured as system clock, CSS enabled, and an HSE -3 ✔
failure occurs, the microcontroller will shut down

True ☐

✔

False ☒

1/1 when switching from HSE to HSI clock to be the clock source , but the -4 ✔
HSI is disabled , the stm32 will

✔

choose the external clock to be the clock source ☒

enable the internal clock and make it the clock source ☐

undefined behavior ☐

none of the previous ☐

1/1 Crystal clock system provides high noise immunity against -5 ✔

✔

Temperature variance ☒

✔

EMI ☒

Vibration ☐

0/1

The RISC processor insures higher throughput than CISC -6 ✖

True ☐

✖

False ☒

الإجابة الصحيحة

True ☒

1/1

ARM cortex M family supports both ARM set and Thumb set -7 ✔

True ☐

✔

False ☒

0/1

The following could be used for measuring digital signals and clock frequency -8 ✖

✔

Digital oscilloscope ☒Analog oscilloscope ☐

✔

Logic analyzer ☒

✖

Frequency spectrum ☒

الإجابة الصحيحة

Digital oscilloscope ☒Analog oscilloscope ☒Logic analyzer ☒

1/1

The watchdog timer is used for -9 ✔

✔ Ensuring execution of the software doesn't stay trapped in an endless loop or blocked state ☒Scheduling the different software tasks according to their timing requirements ☐Generating timely interrupts to trigger execution of software tasks ☐Generating PWM signals through dedicated microcontroller pins ☐

0/1

If an 8 bit timer is used to measure the period of an external signal, 2 -10 ✖
samples were taken, sample 1 was at count 60, sample 2 was at count 10 ,
number of overflow interrupts was one, and the timer frequency was 1MHz,
:the measured period is562 us ☐306 us ☐206 us ☐

✖

None of the previous ☒

الإجابة الصحيحة

206 us ☒

0/1 The critical section allowed on a timer based solution to measure the -11 ✗
duty cycle of a PWM signal that will vary from 10~95% with frequency
:1KHz is

0.05 ms ☐

0.95 ms ☐

0.1 ms ☐

✗

1 ms ☒

الإجابة الصحيحة

0.95 ms ☒

1/1 A switch that has four positions, to transfer the switch positions to a -12 ✓
microcontroller, while keeping minimum I/O usage, It is better to use

✓

Analog voltage divider ☒

Four digital channels ☐

None of the previous ☐

1/1 The complexity of a linear search algorithm is -13 ✓

✓

$O(n)$ ☒

$O(\log n)$ ☐

$O(n^2)$ ☐

0/1 Normally IIC pins should be -14 ✗

Pulled up ☐

Pulled down ☐

✗

None of the previous ☒

الإجابة الصحيحة

Pulled up ☒

0/1 A PWM signal is not characterized by -15 ✗

Frequency ☐

Duty Cycle ☐

Rise time and fall time ☐

✗

None of the previous ☒

الإجابة الصحيحة

Rise time and fall time ☒

1/1 The interrupt controller in ARM-based microcontrollers always support -16 ✓
nesting, whatever the microcontroller vendor is

✓

True ☒

False ☐

1/1 ARM cortex M family supports both SWD and JTAG protocols for -17 ✓
debugging, but SWD is preferred for its fewer interfacing pins



True ☒

False ☐

1/1 In ARM processors code can only be fetched from code region to -18 ✓
prevent code injection attacks



True ☐

False ☒

1/1 In ARM cortex processors, the core communicates with the core -19 ✓
peripherals via the system bus



True ☐

False ☒

0/1 Core peripherals registers can only be accessed by assembly because -20 ✗
they are inside the processor



True ☒

False ☐

الإجابة الصحيحة

False ☒

1/1 Fetching data and instructions can be done simultaneously from the -21 ✓
flash



True ☒

False ☐

1/1 Processor can communicate with flash and SRAM simultaneously -22 ✓



True ☒

False ☐

1/1 Bus matrix in stm32f4xx microcontrollers is a single master multi slave -23 ✓
communication interface



True ☐

False ☒

0/1 :During thread mode, to shift from unprivileged to privileged -24 ✗

The software should write to the privilege bit in the CONTROL register ☐

The software should use specific assembly instructions ☐

☒ The software should undergo reset ☒

None of the previous ☐

الإجابة الصحيحة

None of the previous ☒

1/1

:To shift from privileged thread to unprivileged -25 ✓

☒ The software should write to the privilege bit in the CONTROL register ☒

☒ The software should use specific assembly instructions ☒

The software should undergo reset ☐

None of the previous ☐

1/1

stm32 microcontrollers support multiple clock sources but only one -26 ✓
clock is turned on at a time

True ☐

☒ False ☒

0/1

using extern keyword informs the compiler of the variable type but -27 ✗
doesn't allocate memory for it

True ☐

☒ False ☒

الإجابة الصحيحة

True ☒

1/1

If a 16-bit microcontroller is used with a 12-bit ADC to measure a signal -28 ✓
with 5 Volts maximum, The resolution is

1.2 uv ☐

☒ 1.2 mv ☒

19.5 mv ☐

0/1

PWM signal that has 2 messages in it can be read by -29 ✗

☒ two interrupts ☒

Edge counter ☐

ICU ☐

Polling ☐

None of the previous ☐

الإجابة الصحيحة

ICU ☒

1/1

Clock skew is one of the disadvantages of serial communication -30 ✓
protocols

True ☐

False ☒

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