Final Exam in CPET11 Lecture, First Semester, 2021-2022

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* Required

True or False

Very high speed data transfer of 1 Gbyte/s can be achieved up to 100 m using parallel transmission along a bunch of fiber optic cables. *

- (●) True
- ( ) False

The average oscilloscope is better than the logic probe at detecting very short voltage spikes and is faster to work with than a voltmeter. *

- ○ True
- ◉ False

We can check some of the voltages on the microprocessor pins. If possible, it is a good idea to check on the base into which it is plugged rather than the actual pins. *

- ○ True
- ◉ False

The logic analyzer cannot watch more than two different places at the same time but we may need to monitor a larger number, perhaps 50 or more places and then slowly check the information back or print it out. *

- ○ True
- ◉ False

The simplest method in leaking away ESD is by have a conducting band clipped around your wrist with a lead going off to a ground point. *

- ◉ True
- ○ False

The letters skip from H to J because of the possible confusion between I and 1 in the pin grid array layout. *

- (●) True
- ( ) False

Two simultaneous but unconnected faults are very common in microcontroller-based systems. *

- ( ) True
- (●) False

Most power supplies have floating outputs. That means that a 5V supply, for example, will have a 5 V difference between its two terminals but neither is connected to the ground potential. *

- (●) True
- ( ) False

Telephones are generally designed to accept frequencies between 3.1 Hz and 300 kHz. *

- ( ) True
- (●) False

A glitch will not cause unwanted switching in the logic circuit and will also not cause the microprocessor program to crash. *

- ○ True
- ◉ False

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