CS 2040 Embedded Systems: How to design and implement simple embedded systems

1. What is the best way to design and implement simple embedded systems?

a. By using a microcontroller
b. By using a microprocessor
c. By using a field-programmable gate array

d. By using a system on a chip

2. What are the benefits of using a microcontroller over a microprocessor?

a. Microcontrollers are cheaper
b. Microcontrollers have more I/O pins
c. Microcontrollers have more memory

d. Microcontrollers are faster

3. What are the benefits of using a microprocessor over a microcontroller?

a. Microprocessors are cheaper
b. Microprocessors have more I/O pins
c. Microprocessors have more memory

d. Microprocessors are faster

4. What are the benefits of using a field-programmable gate array over a microcontroller?

a. Field-programmable gate arrays are cheaper
b. Field-programmable gate arrays have more I/O pins
c. Field-programmable gate arrays have more memory

d. Field-programmable gate arrays are faster

5. What are the benefits of using a system on a chip over a microcontroller?

a. Systems on a chip are cheaper
b. Systems on a chip have more I/O pins
c. Systems on a chip have more memory

d. Systems on a chip are faster

Answer Key:

1. d
2. b
3. d
4. d
5. d