Assignment 0

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

1. What is a microcontroller?

   a. A microprocessor along with memory and I/O interfaces on the same chip.
   b. A microprocessor on a single chip with memory and I/O interfaces.
   c. A microprocessor with a microprocessor controller.
   d. None of these.

   No, the answer is incorrect.
   Accepted Answers:
   d. A microcontroller along with memory and I/O interfaces on the same chip.

2. If the frequency of a periodic signal changes from 10 Hz to 100 Hz, the time period will change by:

   a. 10 milliseconds
   b. 100 milliseconds
   c. 60 milliseconds
   d. 50 milliseconds

   No, the answer is incorrect.
   Accepted Answers:
   a. 10 milliseconds

3. The resistor is a component that can be represented in the digital circuit diagram by:

   a. 127
   b. 128
   c. 129
   d. 128

   No, the answer is incorrect.
   Accepted Answers:
   c. 129

4. What are the fundamentals of a typical microcontroller?

   a. Microprocessor
   b. Memory and I/O
   c. Electrical memory
   d. None of these.

   No, the answer is incorrect.
   Accepted Answers:
   d. None of these.

5. It is required to drive a current of 200 milliampères through a resistance of magnitude 10 kOhms. The voltage that must be applied across the resistance will be:

   a. 200 kV
   b. 2 kV
   c. 200 V
   d. 200 V

   No, the answer is incorrect.
   Accepted Answers:
   c. 200 V

6. If three resistances of 3.0 kOhms and 5.0 kOhms and 6.0 kOhms are connected in parallel, the effective resistance will be:

   a. 12 kOhms
   b. 25 kOhms
   c. 15 kOhms
   d. None of these.

   No, the answer is incorrect.
   Accepted Answers:
   a. 12 kOhms

7. If three resistances of 3.0 kOhms and 5.0 kOhms and 6.0 kOhms are connected in series, the effective resistance will be:

   a. 12 kOhms
   b. 25 kOhms
   c. 15 kOhms
   d. None of these.

   No, the answer is incorrect.
   Accepted Answers:
   b. 25 kOhms

8. Which of the following are not object-oriented programming languages?

   a. C
   b. C++
   c. Java
   d. Assembly

   No, the answer is incorrect.
   Accepted Answers:
   d. Assembly

9. What is the role of a compiler in the context of object-oriented programming?

   a. Compiles the statements of a program into object code.
   b. Translates a program written in a high-level language into an equivalent program in machine language.
   c. Translates the program into a higher-level language.
   d. None of these.

   No, the answer is incorrect.
   Accepted Answers:
   b. Translates a program written in a high-level language into an equivalent program in machine language.