Assignment 4

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

Due on 2021-02-17, 23:59 IST.

1. Which component of the mechatronic system is a part of digital control architecture?
   - Logic and Arithmetic
   - Microprocessor
   - Microcontroller
   - Op-Amp
   - No, the answer is incorrect. Score: 0
   Accepted Answers: Logic and Arithmetic

2. What should be the Gain Bandwidth Product of an high quality operational amplifier?
   - Lower
   - Zero
   - Unity
   - Larger
   - No, the answer is incorrect. Score: 0
   Accepted Answers: Larger

3. Which device is generated by replacing the feedback sensor of the inverting op-amp circuit by a capacitor?
   - Integrator
   - Differentiator
   - Msu
   - Comparator
   - No, the answer is incorrect. Score: 0
   Accepted Answers: Integrator and Differentiator

4. Which of the following device is used to hold an instantaneous value of analog voltage until an A/D converter is ready to convert it to digital signal?
   - integrator
   - differentiator
   - summer and hold
   - comparator
   - No, the answer is incorrect. Score: 0
   Accepted Answers: Integrator and Differentiator

5. The minimum sampling rate required for the digital signal to represent the analog signal is _______ times of Nyquist frequency.
   - No, the answer is incorrect. Score: 0
   Accepted Answers: 1.5

6. Which process is employed to transform a continuous analog input into a set of discrete output states?
   - Resistor
   - Coding
   - Quantizing
   - Shannon’s Sampling Theorem
   - No, the answer is incorrect. Score: 0
   Accepted Answers: Quantizing

7. Which device or circuit is able to take inputs from a number of sources and then by selecting an input channel, give an output from just one of them?
   - Multiplier
   - PLC
   - ADC
   - Amplifier
   - No, the answer is incorrect. Score: 0
   Accepted Answers: Multiplier

8. Which of the following are used in digital to analog converters?
   - Ladder network
   - Successive approximation technique
   - Both Ladder and Successive approximation technique
   - None of the mentioned
   - No, the answer is incorrect. Score: 0
   Accepted Answers: Ladder network

9. What is the form of Fuzzy logic?
   - Two-valued logic
   - Gray level logic
   - Many-valued logic
   - Binary set logic
   - No, the answer is incorrect. Score: 0
   Accepted Answers: Many-valued logic

10. The output at each node in Artificial Neural Networks is called, _______.
    - No, the answer is incorrect. Score: 0
    Accepted Answers: Neuron, Node, Value, activation value