week 10 Assessment
The due date for submitting this assignment has passed. As we are not modifying the previous versions of this assignment, you have not submitted this assignment.

1. Read the statements below. 1 point
   - Both statements are true.
   - Statement 1 is correct, statement 2 is incorrect.
   - Statement 2 is correct, statement 1 is incorrect.
   - None of the statements are true.

2. The number of components required to build a 4-bit flash type ADC is 16. 1 point

3. The number of components required to build a 8-bit flash type ADC is 32. 1 point

4. The integrating type converters used in digital water level, monitoring system, all of the mentioned. 1 point

5. Which type of ADC is chosen for radio environment? 1 point
   - Successive approximation ADC
   - Dual slope
   - Charge based ADC
   - All of the mentioned

6. The integrating type converters used in digital water level, monitoring system, all of the mentioned. 1 point

7. The number of components required to build a 12-bit ADC is 1024. What will be ADC as reported as a value if analog voltage is 3.3V (System voltage is 5V)? 1 point

8. You have seen the automatic gain control circuit in the lectures. An AGC is an example of a typical control system. Which of the following definitions will not form part of such a typical control system? 1 point
   - Error Detection circuit
   - Corrector
   - Oscillator
   - Final control element

9. Consider the following statements with respect to analog multipliers. 1 point
   - I. Ideally the best analog multiplier must be a four quadrant one
   - II. Log gain amplifiers are limited by single quadrant operation
   - III. Both statements are true

10. Read the statements about automatic gain control. 1 point
    - Statement 1: AGC is a control loop feedback regarding circuit in an amplifier or series of amplifiers.
    - Statement 2: The process of which to maintain a suitable signal amplitude at its output, despite variation of the signal amplitude at the input.

Both statements are true
Statement 1 is correct, statement 2 is incorrect
Statement 2 is correct, statement 1 is incorrect
None of the statements are true
No, the answer is incorrect.
Accepted Assertions:
- Both statements are true
- Statement 1 is correct, statement 2 is incorrect
- Statement 2 is correct, statement 1 is incorrect
- None of the statements are true
No, the answer is incorrect.
Accepted Assertions:
- Both statements are true
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No, the answer is incorrect.
Accepted Assertions: