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Question 1

The derivative control action is typically used when controlling, but rarely used when controlling.

(A) Temperature, Flow
(B) Flow, Level
(C) pH, Temperature
(D) Level, Temperature
(E) Level, Flow

Answer : A

Question 2

processes always require some degree of control action to achieve setpoint.

(A) Integrating, Derivative
(B) Integrating, Feedforward
(C) Self-regulating, Proportional
(D) Runaway, Linear
(E) Self-regulating, Integral

Answer : E

Question 3

The reciprocal of proportional band is called:

(A) Reset
(B) Percent
(C) Minutes per repeat
(D) Gain
(E) Rate

Answer : D

Question 4

"Quarter-wave damping" may be described as:

(A) a condition of good control where PV approaches SP without overshoot
(B) a condition of poor control where oscillations continue at constant amplitude
(C) a condition of poor control where the transmitter is damped by 25%

(D) a condition of good control where oscillations quickly subside
(E) a condition of excellent control where there are no oscillations

Answer : D

Question 5

Reset control action is often expressed in units of:

(A) percent
(B) seconds per rate
(C) minutes
(D) time constant ratio (unitless)
(E) repeats per minute

Answer : E

Question 6

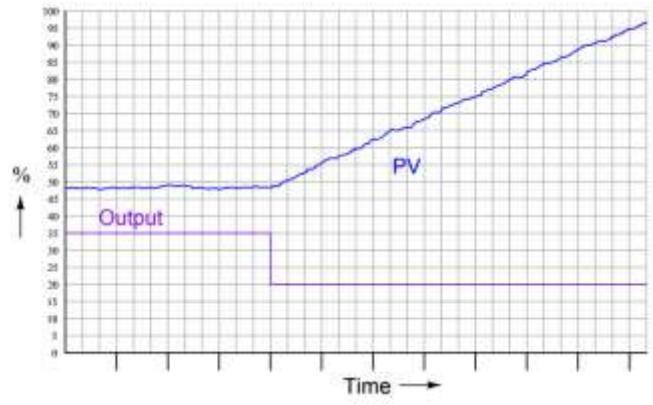
A proportional band setting of 175% is equivalent to a gain setting of .

(A) 175
(B) 0.756
(C) 0.571
(D) 1.32
(E) 1.75

Answer : C

Question 7

The open-loop response of a process is shown in the following trend. What sort of process is indicated by this behavior?



(A) Integrating
(B) Proportional
(C) Linear
(D) Direct-acting
(E) Self-regulating

Answer : A

Question 8

A condition where integral control action drives the output of a controller into saturation is called:

(A) self-bias
(B) wind-up
(C) repeat
(D) noise
(E) offset

Answer : B

Question 9

Fast, self-regulating processes typically respond well to aggressive control action.

(A) Nonlinear
(B) Derivative
(C) Proportional
(D) Reset
(E) Gain

Answer : D

Question 10

Process variable filtering should be used:

(A) to dampen noise
(B) only on integrating processes
(C) to improve response time
(D) only on self-regulating processes
(E) never

Answer : A