1 Select the correct statement/s related to PD control 45

steady state error of a second-order system with proportional plus derivative feedback control is identical to first order system with proportional plus derivative control
13%

proportional control increase the frequency of the response
11%

by tuning it is possible to eliminate oscillations from the response
9%

1 and 2
31%

all of the above
36%

2 Select correct statement/s related to integral control 44

first order system with integral control action eliminates the steady state error
14%

higher K_i (say 20) gives a highly damped oscillation for first order systems
16%

lower K_i (say 0.2) gives fast exponential response for first order systems
9%

none of the above
2%

1 and 3
59%

3 Select the correct statement/s related to PI control (first-order) 44

integral gain influence the frequency of the response
34%

proportional gain used to achieve the required damping
7%

addition of proportional control to integral control action has no effect on the steady state error
7%

1 and 3
27%

all of the above ✓
25%

4 Select the correct statement/s related to PID control (first order) 47

addition of derivative control to proportional and integral control action has no effect on the steady state error
9%

controller may be tuned
6%

actual response of the system doesn't dependent on damping ratio
2%

1 and 2 ✓
51%

2 and 3
32%