

1

Select the correct statement related to block diagram reduction:

64 

check for the blocks connected in series and simplify

☐ 3%

check for the blocks connected in parallel and simplify

☐ 0%

transfer function present in the single block is the transfer function of the overall block diagram

☐ 2%

1 and 2

☐ 31%all of the above ☒☒ 64%

2

The overall transfer function from block diagram reduction for cascaded blocks is

70 

sum of subsystem transfer functions

☐ 4%product of subsystem transfer functions ☒☒ 73%

difference of subsystem transfer functions

☐ 4%

1 and 3

☐ 19%

none of the above

☐ 0%

3 The overall transfer function of two blocks in parallel are

75 

sum of subsystem transfer functions 

 83%

product of subsystem transfer functions

 3%

division of subsystem transfer functions

 3%

2 and 3

 3%

none of the above

 9%

4 If the response to simultaneous control inputs and disturbances is required, they cannot be evaluated

77 

True

 12%

False 

 88%

5 A disturbance to a plant is incorporated by splitting the overall transfer function of the plant and amplifier

76 

True 

 80%

False

 20%