ANS Self-Assessment Quiz

Question 1: Under experimental conditions, subjects are given equal therapeutic doses intravenously of **isoproterenol** followed by **nadolol**. Which correctly identifies the effect on heart rate, systolic blood pressure, diastolic blood pressure, and mean arterial pressure?

A. ![Diagram A]

B. ![Diagram B]

C. ![Diagram C]

Question 2: A researcher is testing the effects of IV low dose of **epinephrine** followed by an equally potent dose of IV **tamsulosin**. How will the subject’s heart rate, systolic blood pressure, diastolic blood pressure, and mean arterial pressure respond to this combination therapy?

A. ![Diagram A]

B. ![Diagram B]

C. ![Diagram C]

Question 3: A 49-year-old man with a past medical history of metabolic syndrome is given **nebivolol**. The physician immediately followed up with an equally therapeutic dose of **clonidine**. (Assume complete, immediate absorption of each therapy.) Predict the net effect on HR, SBP, MAP, and DBP. Choose the best answer.

A. ![Diagram A]

B. ![Diagram B]

C. ![Diagram C]
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Question 4: Atenolol is combined with phenylephrine in an experimental drug regimen. Predict the net effect on HR, SBP, MAP, and DBP.

Question 5: How will HR, SBP, MAP, and DBP change when atropine and neostigmine are co-administered? Choose the best answer.

Question 6: Esmolol and isoproterenol are infused simultaneously via IV. Which correctly identifies the effect on heart rate, systolic blood pressure, diastolic blood pressure, and mean arterial pressure?

Question 7: An 81-year-old woman with Alzheimer’s dementia takes a high dose of donepezil prescribed to her. At the same time, she is administered an equally therapeutic dose of atropine. (Assume complete, immediate absorption of both medications.) How will her heart rate, systolic blood pressure, diastolic blood pressure, and mean arterial pressure respond to treatment?
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Question 8: In a clinical trial, a woman in her second trimester of pregnancy takes methyldopa for her high blood pressure. A bolus of propranolol is then immediately administered by mistake. Predict the net effect on HR, SBP, MAP, and DBP.

A. 
B. 
C. 

Question 9: Norepinephrine and terazosin are combined in an experimental drug regimen. (Assume complete and immediate absorption of each medication.) Predict the net effect on HR, SBP, MAP, and DBP.

A. 
B. 
C. 

Question 10: How will HR, SBP, MAP, and DBP change when carvedilol and low dose epinephrine are co-administered? (Assume complete and immediate absorption of each medication.)

A. 
B. 
C. 

Key: 1 B, 2 B, 3 B, 4 A, 5 C, 6 B, 7 B, 8 C, 9 B, 10 C