

## The Effects on The Heart

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Name: \_\_\_\_\_

Block: \_\_\_\_\_

*Please answer the following questions independently using resources in the classroom or online.*

What is cardiac output?

Define Autonomic Nervous System.

Define Parasympathetic Stimulation. How does it affect heart rate?

Define Sympathetic Stimulation. How does it affect heart rate?

What is the Frank-Starling Principle? How could this affect cardiac output?

Explain how each of the following factors affect cardiac output/heart rate:

Drug use - caffeine, nicotine, alcohol (explain each)

Hormones - adrenaline, epinephrine, norepinephrine, thyroid hormone (explain each)

Stress

*Define the following clinical terms.*

Angina Pectoris

Cardiac Tamponade

Carditis

Coronary Artery Disease

Coronary Ischemia

Coronary Thrombosis

Myocardial Infarction

Rheumatic Heart Disease