

NAME: _____ STUDENT #: _____

Assignment #1 (20 marks)

Integrative Cardiovascular/Biophysical Concepts

1. Give the best match from Column B to Column A. (4 marks)

Column A

- ___ 1. right AV valve
- ___ 2. left AV valve
- ___ 3. myocardial infarction
- ___ 4. Starling forces
- ___ 5. systole
- ___ 6. diastole
- ___ 7. heart rate
- ___ 8. contractility

Column B

- a. emptying
- b. stroke volume
- c. tricuspid valve
- d. tachycardia
- e. filling
- f. mitral valve (bicuspid)
- g. inotropy
- h. heart attack

2. Mathematically define the determinants of mean arterial pressure (MAP). Also, define the physiological determinants (learned in class) of each component in the MAP equation (based on Ohm's Law). **Hint: use a diagram** (10 marks)

