The Cardiovascular System: Measuring Blood Pressure

| Blood flow is generated by the | Blood pressure |
|---|----------------------------|
| results when that flow encounters from the v | vessel walls. |
| Blood pressure is expressed in of mercury and is | written as |
| Blood flows in layers within the lumen of blood vessels with t | he layers in the middle of |
| the lumen flowing fastest. This is known as | flow. |
| Blood pressure fluctuates with each heartbeat. The pulse you | feel in your wrist is a |
| created by the contracting heart eject | ting blood. |
| The maximum pressure exerted by blood against the artery wa | all is known as |
| pressure (SP) and is the result of ventricular | · |
| Normal SP is about mmHg. | |
| What does the <u>dicrotic notch</u> represent? | |
| ventricular Normal DP is about mmHg. | |
| <u>Pulse pressure</u> (PP) is the difference between p | pressure and |
| pressure. | |
| Write the equation for pulse pressure: PP = | |
| Mean arterial pressure (MAP) is the calculated average pressu | re in the arteries. It is |
| closer to the diastolic pressure because the heart spends more | time in |
| Write the equation for mean arterial pressure: MAP = | |
| When taking blood pressure, inflate the cuff so that blood flow | v is in the |
| blood vessel | |

| Open the valve slowly, releasing the pressure. The first sound you hear through the | |
|--|--|
| stethoscope is recorded as the pressure. The sounds you hear are due to the | |
| of the blood. | |
| When you don't hear any sounds, this is recorded as the pressure. | |
| For questions 11 and 12, calculate PP and MAP, given SP = 130 mmHg and DP = 70 mmHg (see | |
| Quiz section for an example). | |
| 11 PD | |

- 11. PP = _____
- 12. MAP = _____