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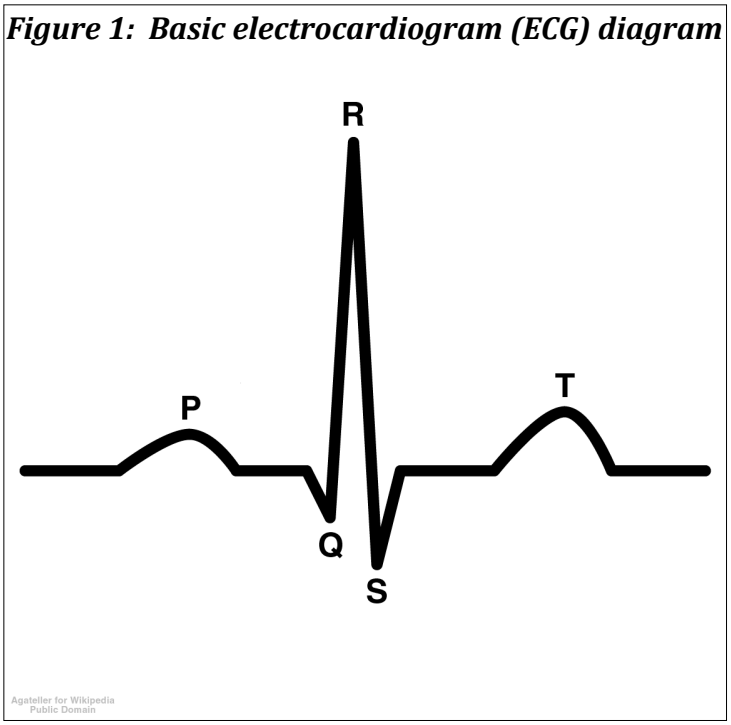
student name

Figure 1: Basic electrocardiogram (ECG) diagram



1. Look at the diagram of the ECG at right. The diagram is actually a graph; a graph of what? [1 mark]

2. Why is the heart made of muscle? [1 mark]

3. What is the function of electricity in the heart? [1 mark]

4. Describe two structure (what it is made of) to function (what it does) relationships in the heart. [4 marks]

5. Name and/or briefly describe the event which [1 mark each]:
   a. occurs at the beginning of the P wave? _____
   b. occurs during the P wave? _____
   c. occurs at the end of the P wave? _____
   d. occurs from Q – R on the ECG: _____
   e. occurs midway between R and S on the ECG: _____
   f. from R – S on the ECG: _____
   g. occurs during the T wave: _____
   h. occurs at the end of the T wave: _____

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6. Briefly explain how valves in the heart work (again relating structure to function). Specifically explain: what causes them to open [2 marks], what causes them to close [2 marks], and what is their role or function [2 marks].

7. List four structures which play a role on the electricity of the heart. [4 marks]
   a. _____
   b. _____
   c. _____
   d. _____

8. To the right of each structure above, briefly describe what its function is. [4 marks]

9. Briefly describe what occurs in the heart during "systole." [2 marks]
   a. _____
   b. _____

10. During the T wave, is blood moving in the heart? If so, from where to where? [2 points]