The worksheet below is adapted from
A. Fundamentals of Anatomy and Physiology (9th Ed) by Martinin at al
B. Human Anatomy and Physiology Lab Manual (9th Ed) by Marieb and Mitchell

1. What are the 2 types of cardiac muscle cells involved in a normal heartbeat?
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_____________________________________________________________________________
_____________________________________________________________________________

2. What does the term ‘autorrhythmicity’?
_____________________________________________________________________________
_____________________________________________________________________________
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3. Match the terms on the left with the numbers in the figure for the components of the conducting system in the heart.

![Heart diagram](image)

a. Bundle branches
b. Internodal pathways
c. Atrioventricular (AV) bundle
d. Sinoatrial (SA) node
e. Purkinje fibers
f. AV bundle (bundle of His)

4. Referring to the graph below, describe the pacemaker potential.

![Graph](image)
5. Describe the pathway for impulse conduction through the heart; you may use the diagram below to indicate the pathway.

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____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________

SA node
6. What is an electrocardiogram (ECG or EKG)?
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_____________________________________________________________________________
_____________________________________________________________________________

7. Describe the events depicted on the cardiogram:
______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________

8. Describe the phases of the Cardiac Cycle.