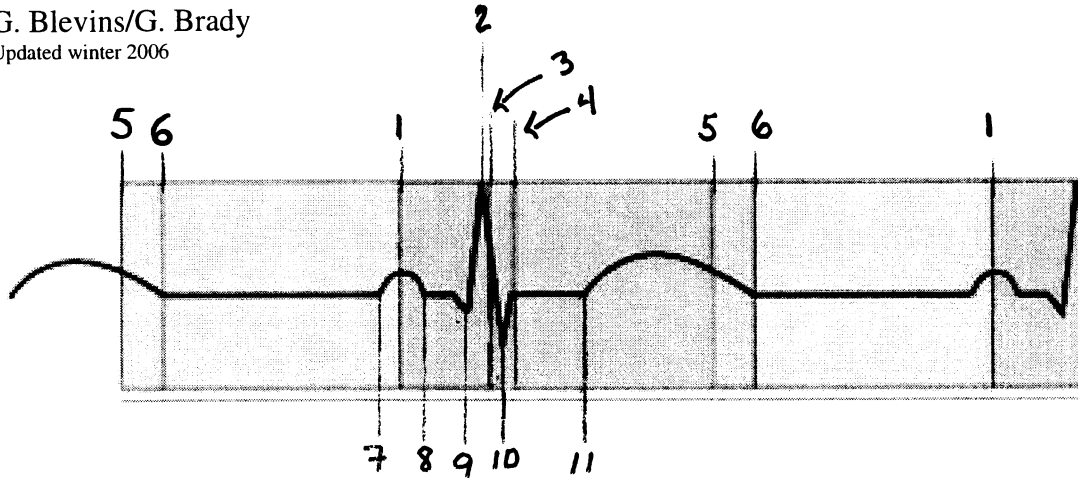


# A&P 242

## Cardiac Homework

G. Blevins/G. Brady

Updated winter 2006



**Directions:** Using the time periods (numbers) indicated on the graph above, indicate the specific time periods (single point or interval) for each of the cardiac activities that are part of a Cardiac cycle stated below. Place the number, if statement represents a single point, or numbers, if statement represents an interval, for the correct time period on the lines provided next to the statement: i.e., 1 or 1-4

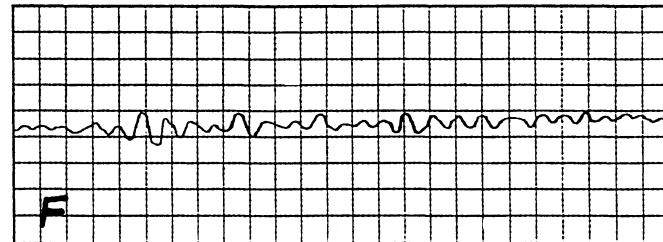
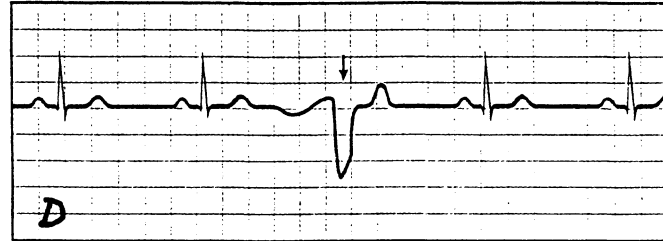
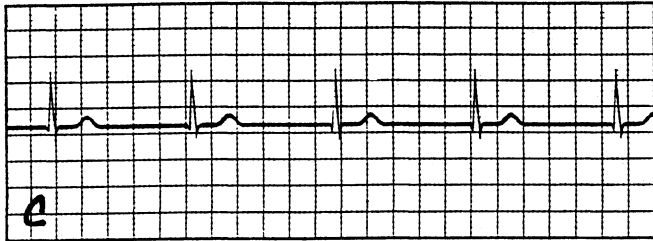
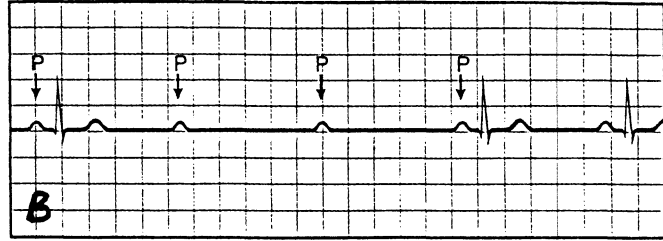
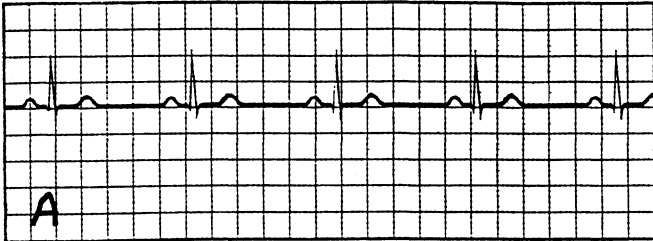
<u>Cardiac Activity</u>	<u>EKG time period or wave</u>
1. Atrial depolarization	_____
2. Atrial repolarization	_____
3. Ventricular depolarization	_____
4. Ventricular repolarization	_____
5. Atrial systole	_____
6. Atrial diastole	_____
7. Ventricular systole	_____
8. Ventricular diastole	_____
9. Isovolumetric relaxation	_____
10. Isovolumetric contraction	_____
11. Semilunar valves close	_____
12. Semilunar valves open	_____

Over →

**Cardiac Homework**  
**P. 2 of 2**

- 13. AV valves close \_\_\_\_\_
- 14. AV valves open \_\_\_\_\_
- 15. First Cardiac Sound “lubb” \_\_\_\_\_
- 16. Second Cardiac Sound “dupp” \_\_\_\_\_
- 17. Rapid ventricular filling (passive) \_\_\_\_\_
- 18. Diastasis filling (passive) \_\_\_\_\_
- 19. Forced ventricular filling (active) \_\_\_\_\_
- 20. “P” Wave \_\_\_\_\_
- 21. “Q” Wave for QRS complex \_\_\_\_\_
- 22. “R” Wave for QRS complex \_\_\_\_\_
- 23. “T” Wave \_\_\_\_\_
- 24. “S” point on QRS complex \_\_\_\_\_
- 25. Ventricular Ejection \_\_\_\_\_
- 26. Interval that represents the time required for an impulse to travel through the atria, AV node, and conduction fibers. \_\_\_\_\_
- 27. Interval that represents the time when the ventricular myocardium is fully depolarized during the plateau phase of myocardial action potential. \_\_\_\_\_
- 28. Interval that represents the time from from the beginning of ventricular depolarization to the end of ventricular repolarization. \_\_\_\_\_

Bonus Questions: Analysis the following EKG's. Select the answer from the list below and match it with the correct EKG.



Possible Condition:

EKG

1. Heart Block, no conduction from P to AV node, no conduction through Bundle of His.
2. Premature Ventricular contraction "PVC"
3. Normal sinus rhythm or EKG
4. Nodal rhythm due to the absence of SA node activity
5. Ventricular fibrillation

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_