PART I — Multiple Choice

Circle the best answer.

1.	The primary purpose of an ECG is to record: A. Blood pressure B. Electrical activity of the heart C. Heart sounds D. Oxygen saturation
2.	A standard ECG tracing is recorded on: A. Blue grid paper B. White lined paper C. Graph paper with small and large boxes D. Plain paper
3.	How many leads are used in a standard 12-lead ECG ? A. 10 B. 12 C. 8 D. 6
4.	Which electrode color is placed on the right arm ? A. Red B. Black C. White D. Green
5.	Which electrode is considered the ground lead ? A. Right arm B. Left arm C. Right leg D. Left leg

- 6. What does the **P** wave represent?
 - A. Ventricular contraction
 - B. Atrial depolarization
 - C. Ventricular repolarization
 - D. Atrial relaxation
- 7. The **QRS complex** represents:
 - A. Atrial depolarization
 - B. Atrial repolarization
 - C. Ventricular depolarization
 - D. Ventricular repolarization
- 8. The **T wave** represents:
 - A. Ventricular depolarization
 - B. Atrial depolarization
 - C. Ventricular repolarization
 - D. Electrical silence
- 9. One common cause of artifact on an ECG tracing is:
 - A. Correct electrode placement
 - B. Patient movement
 - C. Proper skin prep
 - D. Good lead contact
- 10. Before obtaining an ECG, the patient should:
 - A. Stand upright
 - B. Be lying still and relaxed
 - C. Be exercising
 - D. Hold their breath

PART II — Fill in the Blank

11. ECG stands for	·	
12. The small boxes on ECG paper represent	seconds.	
13. The large boxes on ECG paper represent	seconds.	
14. The normal heart rate range for an adult is	to	bpm.
15. Proper skin preparation helps reduce ECG		_•

PART III — True or False

Circle one.

16. True / False

ECG electrodes detect electrical impulses produced by the heart.

17. True / False

A 12-lead ECG uses 12 electrodes placed on the chest only.

18. True / False

Muscle tremors can interfere with ECG tracings.

19. True / False

The ECG machine prints heart rhythms in real time.

20. True / False

Loose electrodes can cause artifact on an ECG tracing.

PART IV — Short Answer

- 21. Why is correct electrode placement important when obtaining an ECG?
- 22. List **two steps** to properly prepare a patient for an ECG:
- 23. Name two common sources of ECG artifact:
- 24. What should you do if an ECG tracing looks unclear or noisy?

PART V — Basic Rhythm Recognition

- 25. Which ECG component comes **first** in a normal cardiac cycle?
- 26. Which part of the ECG tracing is usually the **tallest**?