

A&P Review for Nursing students The Cardiac System Worksheet 1: Anatomy of the Heart

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 is the major function of the cardiovascular system?	
2.	What is the role of the heart?	
3.	Describe the location of the heart.	
4.	Describe the shape and size of the heart.	



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5. External anatomy of the heart

1. An anterior view of the heart is shown here. Match each structure listed on the left with the correct letter in the figure.

	1.	right atrium	a
	2.	right ventricle	b
	3.	left atrium	
	4.	left ventricle	
	5.	superior vena cava	d D
	6.	inferior vena cava	e
	7.	ascending aorta	
-	8.	aortic arch	a
	9.	brachiocephalic artery	
	10.	left common carotid artery	
	11.	left subclavian artery	k
	12.	pulmonary trunk	
-	13.	right pulmonary artery	
	14.	left pulmonary artery	
	15.	ligamentum arteriosum	20. left coronary artery
	16.	right pulmonary veins	21. circumflex artery
	17.	left pulmonary veins	22. anterior interventricular artery
	18.	right coronary artery	23. apex of heart
	19.	anterior cardiac vein	24. great cardiac vein



6. Label the structures in the diagram below:

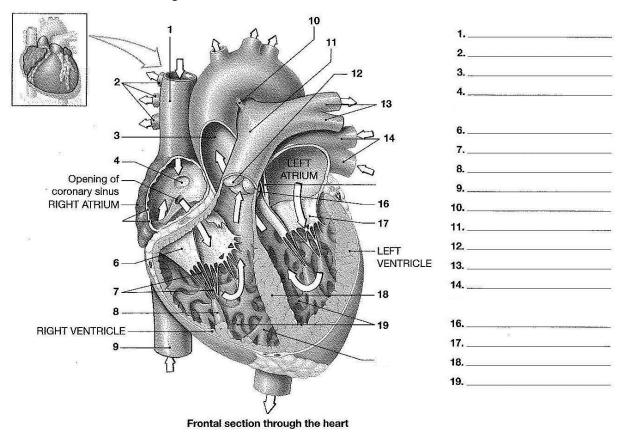


Figure 22.9 Internal Anatomy of the Heart

Diagrammatic frontal section of the heart with arrows that indicate direction of blood flow.

- a. Right pulmonary artery
- b. Chordae tendineae
- c. Aortic semi-lunar valve
- d. Trabecular carneae
- e. Fossa ovalis
- f. Ascending Aorta
- g. Inferior vena cava
- h. Superior Vena Cava
- i. Tricuspid valve

- j. Left pulmonary veins
- k. Pulmonary semi-lunar valve
- I. Pulmonary trunk
- m. Left pulmonary artery
- n. Ligament arteriosum
- o. Bicuspid valve
- p. Interventricular septum
- q. Papillary muscle

7.	What is the role of the 4 heart valves?	
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8. In the diagram below, indicate the flow of blood through the heart, systemic and pulmonary circuits.

