Name	
Human Biology Lab Manual Lab Laboratory Exercise 4: Cardiovas	<u> </u>
CARDIOVASCULAR SYSTEM	
Activity 1: Identify the two circuit	s of the cardiovascular system:
Identify the pulmonary circuit an	d systemic circuit in Figure 4.1 of the lab manual:
A	B
Activity 2: Distinguish structural	differences between the types of blood vessels.
1.	5.
2.	6.
3.	7.
4.	8.
Activity 3: Trace the path of bloo	d through the heart art of the heart that comes next as blood flows through the heart.
1. Right atrium	6.
Tricuspid valve	Bicuspid valve
2. Pulmonary semilunar valve	7. Aortic semilunar valve
3.	8.
4.	9.
5.	10.
Which side of the heart pumps or	xygen-poor blood (right or left)?
Which side of the heart pumps on	zygen-rich blood (right or left)?
Activity 4: Identify structures of t	he sheep heart.
Label the external anatomy of the left ventricle, coronary artery, and	heart with these terms: right atrium, right ventricle, left atrium, d adipose (fat) tissue.
A.	D.
B.	E.
C.	F.
•	heart with these terms: right atrium, right ventricle, left atrium, tum, tricuspid valve, bicuspid valve, and aorta.
A.	E.
B.	F.
C.	G.
D.	Н.

Which ventricle h	has a thicker wall (right or left)?	
Activity 5: Listen	ing to the Heartbeat at Rest	
louder: lu 2. When the	stethoscope is positioned between the lb/1 st sound or dub/2 nd sound? stethoscope is positioned between the lb/1 st sound or dub/2 nd sound?	e second and third ribs, which sound is
Activity 6: Measu	ıring Blood Pressure at Rest versus af	ter Exercise
Partner Yourself	Blood Pressure at Rest	Blood Pressure after Exercise
Why would a per	rson have lower blood pressure at rest	than after exercise:
Activity 7: Measu	uring Heart Activity by Using Electroc	ardiography (ECG)
Cut and tape an e	electrocardiogram within the box below	V.

Does the above ECG resemble a normal ECG as shown in Figure 4.7 in the lab manual? $\square Y \square N$

Activity 8: Lab Review

1.	Within which type of blood vessels are nutrients and wastes
	exchanged?
2.	Which type of blood vessels have valves?
3.	How many chambers does the heart contain?
4.	Which chamber of the heart has the thickest wall?
5.	The pulmonary arteries carry oxygen-rich or oxygen-poor
	blood?
6.	Which chamber of the heart pumps blood to the systemic
	circuit?
7.	Which heart valve prevents backflow from the left ventricle
	to the left atrium?
8.	Which heart valves produce the lub sound of the heartbeat?
9.	Which has higher blood pressure: systolic or diastolic
	pressure?
10.	What is known as the heart's natural pacemaker?