

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Sheep Heart Pre-lab Worksheet

The following worksheet must be successfully completed before you start the actual dissection of the Sheep Heart.

Use “The Illustrated Dissection Guide to the Mammalian Heart” to complete the following:

1. What is the most common Mammalian heart dissected?

\_\_\_\_\_

2. What are the two ways preserved hearts come in?

a. \_\_\_\_\_

b. \_\_\_\_\_

3. What is the *pericardium*?

\_\_\_\_\_

4. What is its function?

5. \_\_\_\_\_

6. What is the whitish lumpy tissue on the outer surface of the heart?

7. \_\_\_\_\_

8. What kind of tissue is the “bulk of the heart” – the reddish brown tissue?

\_\_\_\_\_

9. Where is the endocardium located?

\_\_\_\_\_

10. What side is place “up” (showing) for this dissection? \_\_\_\_\_

11. Where is the “coronary artery” located? \_\_\_\_\_

12. What is the pointed “tip” of the heart called? \_\_\_\_\_

13. Describe the function of the following external features (figure 2):

- a. Superior Vena Cava

\_\_\_\_\_

- b. Inferior Vena Cava

\_\_\_\_\_

- c. Right Auricle

\_\_\_\_\_

- d. Right Ventricle

\_\_\_\_\_

- e. Pulmonary Veins

\_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_

f. Left Auricle

g. Left Ventricle

h. Brachiocephalic Artery

i. Coronary Artery

14. **Thoroughly** describe the slice/cut required to successfully expose the internal structures of the heart:

---

---

---

---

---

15. Describe the function of the following internal features (figure 3):

a. Tricuspid Valve

b. Pulmonary Semilunar Valve

c. Mitral Bicuspid Valve

d. Aortic Semilunar Valve

e. Chordae Tendineae

f. Papillary Muscle

g. Interventricular Septum

### **The Operation of the Heart**

16. How many chambers are in the typical mammalian hearts? \_\_\_\_\_

17. How many "circuits"? \_\_\_\_\_

18. Name the chambers in the circuit: \_\_\_\_\_ & \_\_\_\_\_

19. Where do the Superior & Inferior Vena Cava dump their blood? \_\_\_\_\_

20. Where is it pumped next? \_\_\_\_\_

21. What valve does it pass through? \_\_\_\_\_

22. From the right Ventricle, where does the blood travel? \_\_\_\_\_

23. What happens to the blood in the lungs? \_\_\_\_\_

24. When the blood returns from the lungs, what chamber does it enter? \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_

25. What chamber does it enter next? \_\_\_\_\_

26. What artery does the blood enter as it leaves the heart? \_\_\_\_\_

27. What is the largest artery in the body? \_\_\_\_\_

28. How do “they” describe the sound of the heart beat? \_\_\_\_\_

Where does the “lub” sound come from?

29. Where does the “dub” sound come from?