This is a guide which should cover most of the items on the practical. But there may be items not covered that you are responsible for.

Exercise 20- Anatomy of the Heart
You are responsible for knowing the following:
- The Gross Anatomy of the Human Heart
- The Microscopic Anatomy of Cardiac Muscle Cells
- The Gross Anatomy of the Pig Heart

Identify the following gross structures on the Human Heart Model

Pulmonary Circulation
Right Atrium
Right Auricle
Tricuspid valve
Right Ventricle
Pulmonary semilunar valve
Pulmonary trunk
Pulmonary arteries (right and left)
Pulmonary veins (right and left)

Systemic Circulation
Left Atrium
Left Auricle
Bicuspid or mitral valve
Left ventricle
Aortic semilunar valve
Ascending aorta
Aortic arch
Brachiocephalic artery
Left common carotid artery
Left subclavian artery
Descending aorta
Superior vena cava
Inferior vena cava

Study Hint: Remember BCS for Brachiocephalic, Left Common Carotid and Left Subclavian arteries

Other Structures
Apex
Base
Chordae tendineae
Endocardium
Interventricular septum
Papillary muscles
Myocardium
Epicardium

Coronary Circulation
Left Coronary Artery
  Anterior interventricular artery
  Circumflex artery
Right coronary artery
  Marginal Artery
  Coronary sinus
  Great cardiac vein

Identify the following structures on the Figure of the Heart Wall and Pericardium (see next page)
Myocardium
Pericardium
  Fibrous pericardium
  Serous Pericardium
  Parietal layer
  Visceral layer or epicardium
  Pericardial cavity

Identify the following structures on the Cardiac Muscle Tissue Slide
Intercalated discs
Striations
Identify the Following on the **Pig Heart Dissection** (see procedures provided by the instructor)

**Pulmonary Circulation**
- Right Atrium
- Right Auricle (may have been cut off)
- Tricuspid valve
- Right Ventricle
- Pulmonary semilunar valve
- Pulmonary trunk (may have been cut off)

**Systemic Circulation**
- Left Atrium
- Left Auricle (may have been cut off)
- Bicuspid or mitral valve
- Left ventricle
- Aortic semilunar valve
- Aorta (may have been cut off)

**Other Structures**
- Apex
- Base
- Chordae tendineae
- Endocardium
- Interventricular septum
- Papillary muscles
- Myocardium
- Epicardium

Note: I want you to view the semilunar valves on the pig heart dissection, but I will only ask you to identify them on a practical from the human heart model.

- Complete the review sheet

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**Figure of the Heart Wall and Pericardium**

![Figure of the Heart Wall and Pericardium](image-url)