

## SCIT 1408: Study Guide Outline of Laboratory Modules

### Lab #6

Note: This list of modules contains all the structures you are to know for lab quizzes and practical exams. It is also an excellent study guide for lecture exams.

\* *Starred items are found in the text book, but not in the lab manual.*

### **Module 16**

#### Heart anatomy

##### Wall of the heart

Myocardium

Endocardium

Epicardium (visceral pericardium)

Parietal pericardium

Pericardial cavity

##### External anatomy

Left atrium

Right atrium

Left ventricle

Right ventricle

\*Atrioventricular sulcus

\*Anterior interventricular sulcus

\*Posterior interventricular sulcus

\*Apex

\*Base

##### Internal anatomy

Left atrium

Right atrium

Interatrial septum

Fossa ovalis

Interventricular septum

Left ventricle

Right ventricle

Tricuspid atrioventricular valve

Bicuspid (mitral) atrioventricular valve

Chordae tendineae

Papillary muscles

Pulmonic semilunar valve

Aortic semilunar valve

### **Module 17**

#### Vessels of the Heart

Superior vena cava

Inferior vena cava

- Left pulmonary veins
- Right pulmonary veins
- Pulmonary trunk
- Right pulmonary arteries
- Left pulmonary arteries
- Aorta
  - Aortic arch
  - Descending aorta
- Ligamentum arteriosum (ductus arteriosus)
- Coronary circuit
  - Left and right coronary arteries
  - Circumflex artery
  - Anterior interventricular artery
  - Posterior interventricular artery
  - Great cardiac vein
  - Middle cardiac vein
  - Coronary sinus
  - Opening to coronary sinus inside right atrium

## **Module 18**

- Heart Sounds
  - First (lub)
  - Second (dub)
  - Third
- Murmurs
- Auscultation
- Auscultatory areas

## **Module 19**

- \*Cardiac conduction system
  - \*Sino-Atrial node (S-A node)
  - \*Atrio-Ventricular node (A-V) node
  - \*Atrio-Ventricular bundle
  - \*Right and Left Bundle branches
  - \*Purkinje fibers

## **Module 20**

- \*Electrocardiogram
  - \*P wave
  - \*QRS complex
  - \*T wave
  - \*Cardiac cycle
    - \*Systole (Atrial and ventricular)
    - \*Diastole (Atrial and ventricular)
  - \*P-Q interval

## **Module 21**

### **\*Cardiac Control**

**\*Medulla oblongata—cardiac control center**

**\*Cardioaccelerator reflex center—monitors baroreceptors in aorta**

**\*Sympathetic accelerator nerves**

**\*Cardioinhibitor reflex center—constant monitoring**

**\*Vagus nerve (CN X)**

**\*Temperature**

**\*Stretch in right atrium**

**\*Potassium**

**\*Calcium**