Lab Exam 3 Objectives

Circulatory System

Histology

Identify each of the following formed elements.

Red blood cells (RBCs) or erythrocytes
White blood cells (WBCs) or leukocytes
Platelets or thrombocytes

Blood Typing

Interpret blood typing results for ABO and Rh factor

Anatomy of the Heart (note: boldface headings are NOT objectives)

Aorta	**Blood vessels of myocardium**
Aortic arch	Cardiac vein
Ascending aorta	Coronary sinus
Descending aorta	Left coronary artery
Valves & associated structures	Circumflex artery
Aortic semilunar valve	Left anterior descending artery
Bicuspid (mitral) valve	Opening to coronary arteries
Pulmonic semilunar valve	Right coronary artery
Tricuspid valve	Marginal artery
Chordae tendineae	Posterior interventricular artery
Papillary muscle	**Pulmonary blood vessels & associated structures**
Tissues	Left pulmonary artery
Endocardium	Left pulmonary veins
Fibrous pericardium	Pulmonary trunk
Myocardium	Right pulmonary artery
Parietal pericardium	Right pulmonary vein
Pericardial cavity	Ligamentum arteriosum
Visceral pericardium (epicardium)	**Vena cavae**
Chambers & associated structures	Inferior vena cava
Auricle	Superior vena cava
Fossa ovalis	
Interatrial septum	
Interventricular septum	
Left atrium	
Left ventricle	
Right atrium	
Right ventricle	

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Lab Exam 3 Objectives

Sheep's Heart

Aorta	Myocardium
Aortic semilunar valve	Opening to coronary arteries
Bicuspid valve	Papillary muscle
Chordae tendineae	Pulmonary trunk
Fibrous pericardium	Pulmonic semilunar valve
Inferior vena cava	Right atrium
Interatrial septum	Right ventricle
Interventricular septum	Superior vena cava
Left atrium	Tricuspid valve
Left ventricle	Visceral pericardium (epicardium)

Arteries & Veins

Major arteries

Anterior tibial	Facial
Aorta	Femoral
Aortic arch	Inferior mesenteric
Ascending aorta	Internal carotid
Descending aorta	Internal iliac (hypogastric)
Abdominal aorta	
Thoracic aorta	
Axillary	Popliteal
Brachial	Posterior tibial
Brachiocephalic (trunk)	Radial
Celiac (trunk)	Renal
Common carotid (right & left)	Subclavian (right & left)
Common iliac (right & left)	Superior mesenteric
Deep palmar arch	Superficial temporal
Dorsalis pedis	Ulnar
External carotid	Vertebral
External iliac	

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Major veins

Axillary	Great saphenous
Azygos	Hepatic
Basilic	Inferior vena cava
Brachial (note: 2 in each arm)	Internal iliac (hypogastric)
Brachiocephalic (right & left)	Internal jugular
Cephalic	Median cubital
Common iliac	Popliteal
External iliac	Renal
External jugular	Subclavian (right & left)
Femoral	Superior vena cava

Histology

Differentiate and identify an artery and vein.

Blood Pressure Monitoring Equipment

Be able to identify the sphygmomanometer.

Hepatic Portal Circulation

Hepatic portal vein	Splenic vein
Inferior mesenteric vein	Superior mesenteric vein

Lymphatic System

Axillary lymph nodes	Right lymphatic duct
Cervical lymph nodes	Spleen
Cisterna chyli	Thoracic duct
Inguinal lymph nodes	Thymus gland
Lymphatic vessels	

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Lab Exam 3 Objectives

Respiratory System

Respiratory Organs (note: boldface headings are NOT objectives)

Structures of nose/oral cavity/pharynx	Hyoid bone
Auditory tube aperture	Thyroid cartilage
Laryngopharynx	Vocal folds (cords)
Lingual tonsils	**Structures of Tracheobronchial tree**
Naris (pl. nares)	Alveolus (pl. alveoli)
Nasal cavity	Bronchiole
Nasal conchae	Bronchus (right & left) (pl. bronchi)
Inferior, Middle, and Superior	Carina
Nasopharynx	Esophagus
Oral cavity	Trachea
Oral vestibule	**Lung lobes and fissures**
Oropharynx	Diaphragm
Palate (hard & soft)	Horizontal fissure (right lung)
Palatine tonsil	Lower (inferior) lobe (right & left)
Pharyngeal tonsil (adenoid)	Lung (right & left)
Tongue	Middle lobe (note: right lung only)
Uvula	Oblique fissure (right & left lung)
Structures of Larynx	Upper (superior) lobe (right & left)
Arytenoid cartilage	
Cricoid cartilage	
Cricothyroid membrane	
Epiglottis	

Pleura

Parietal pleura
Pleural cavity
Visceral pleura

Spirometry Equipment

Be able to identify the spirometer.

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