

SBI3U: Animal Anatomy Test Review Checklist

Digestive System:

- role of digestive system
- be able to label organs
- know the 4 stages of digestion
- ingestion
 - role of teeth, saliva, tongue, epiglottis, peristalsis, amylase
- sphincters role
- digestion
 - role of stomach, hydrochloric acid, pepsin, mucus
 - role of small intestine, parts
- difference between mechanical and chemical digestion
- absorption
 - villi and microvilli (surface area) connect structure and function
 - large intestine - role and structure
- egestion
 - purpose and importance

Digestive System: Accessory Organs:

- Liver
 - bile, glycogen, detoxify blood
- gallbladder
 - stores and concentrates bile
- pancreas
 - secretin - sodium bicarbonate
 - lipases, proteases, carbohydrases
 - insulin - feedback loop

Enzymes:

- catalysts
- factors that influence enzyme activity
- chemical digestion of:
 - carbohydrates
 - proteins
 - fats
- summary chart

Respiratory System:

- Know the pathway and function of each structure involved in respiration
 - nasal cavity, mouth, trachea, bronchi, bronchioles, alveoli, diaphragm, epiglottis, pharynx, larynx
- Define tidal volume, vital capacity, residual capacity
- Explain the process of inhalation and exhalation (the mechanics)
 - pressure changes
- Know how body responds to changes in CO₂ and pH

Circulatory System:

- Describe the 3 types of blood vessels (relate structure to function)
 - veins
 - arteries
 - capillaries
- Know the 4 chambers of the heart
 - atria vs. ventricles - structural differences
- Know the 4 heart valves and their function
- Be able to describe the pathway that blood takes through the heart and body
 - know which areas carry deoxygenated blood and which carry oxygenated blood
- Understand some common disorders of the circulatory system such as heart attack, atherosclerosis, hypertension

Blood:

- components
 - plasma
 - solids
- blood solids
 - white blood cells
 - red blood cells, hemoglobin
 - platelets
- making new blood cells