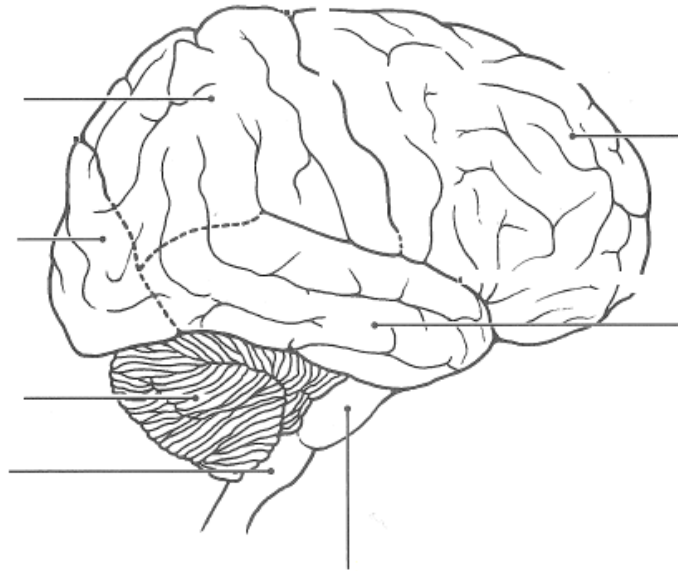


Anatomy and Physiology Spring Semester Senior Final Exam 2017

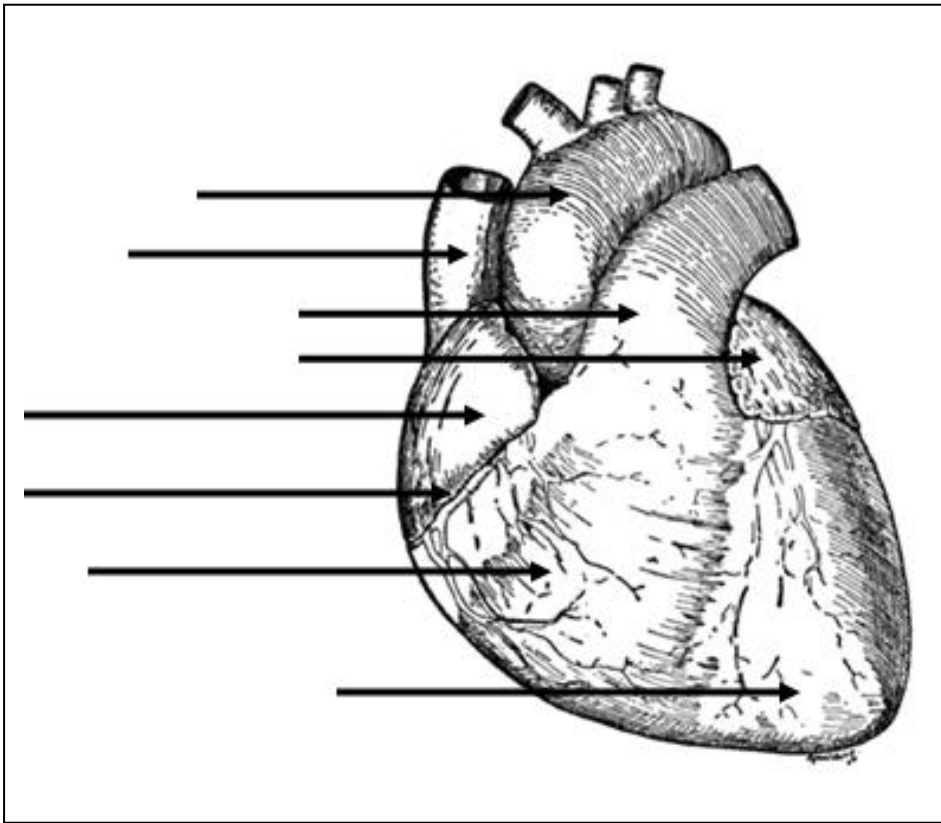
STUDY GUIDE

- Which nervous system subdivision is composed of the brain and spinal cord?
- Which nervous system subdivision is composed of the cranial and spinal nerves?
- Which subdivision of the PNS regulates the heart, smooth muscles, and glands?
- Which subdivision of the PNS controls voluntary movements such as raising your hand?
- What are the ridges found on the cerebral cortexes called?
- What are the cavities in the brain where cerebrospinal fluid is formed and stored called?
- What part of the brain is responsible for balance, movement, and coordination?
- What part of the brain is responsible for higher intelligence, sight, hearing, taste, and smell?
- What part of the brain is responsible for heart rate, breathing, hiccupping, and swallowing?
- Which **lobe** of the brain is involved in voluntary movements, higher learning, and reasoning abilities?
- Which brain **lobe** controls vision?
- What is the brainstem and what are its parts?
- Identify the brain structures in the diagram shown below.



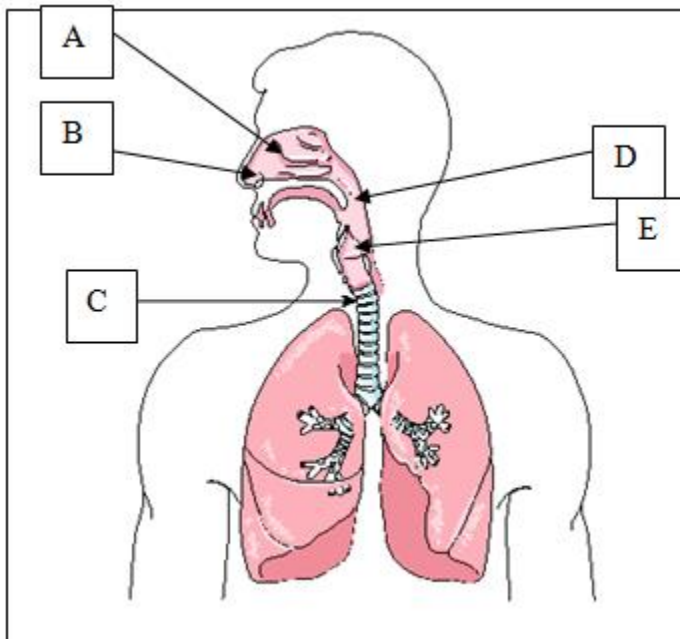
- Describe the route light takes (which structures it passes through) as it enters the eye.
- What is the function of the rods and cones?
- What is the fovea centralis?
- What is the function of the olfactory nerve?
- Know the function and location of the external and internal ear: hammer, anvil, stirrup, tympanic membrane, oval window, Eustachian tube & pinna.
- Know the general structure and/or make-up and functions of the following components of the blood: erythrocytes, leukocytes, plasma and thrombocytes.
- Which type of blood cell is involved in disorders such as leukemia and leucopenia?
- Having too few of these blood cells may cause anemia.

- Type of blood cell affected by sickle-cell anemia.
- Identify the structures of the external heart shown in the diagram below.



- Right Atrium
- Right Ventricle
- Left Atrium
- Left Ventricle
- Superior Vena Cava
- Coronary artery
- Pulmonary Trunk
- Aorta

- Match the respiratory structures in the diagram to their names.



- Trachea
- Pharynx
- Nose
- Larynx
- Conchae

- Match the respiratory structures in the diagram to their names

Bronchioles
Alveolus
Diaphragm
Trachea
Bronchus
Pharynx
Larynx

