These review questions for the Introduction to Anatomy and Physiology lecture were adapted from several sources, including 1700+ Review Questions for Anatomy and Physiology II (3rd edition) by R. Michael Anson, Ph.D.

## **Multiple choice questions:**

b) Steady internal conditions

c) Regulation by medical intervention (drugs and surgery)d) Equality between the internal and external environments

1) Anatomy a) The study of atoms
b) The study of molecules
c) The male and female reproductive organs
d) The study of organ function and biological chemistry
e) The study of the structure and location of organs
2) Physiology
a) The study of organ structure
b) The study of how organs function
c) The study of organ names
d) The study of the mind
e) The study of behavior
3) Much of physiology is the study of the of the body.
a) Chemistry
b) Anatomy
c) Botany
d) Physics
e) Diseases
4) There are organ systems in the human body
a) 5
b) 12
c) 20
d) 206
e) 614
5) Which is the correct order (from smallest to largest) of structures that make up the human body?
a) Organ systems, organs, tissues, molecules, cells, atoms
b) Tissues, cells, organs, organ systems, molecules, atoms
c) Atoms, molecules, cells, tissues, organs, organ systems
d) Molecules, cells, organs, tissues, organ systems, atoms
e) Molecules, atoms, cells, organs, organ systems, tissues
6) Homeostasis is best conceived as a state of
a) Regulation by hormones

e) Lack of evolution in the human species
7) The body has a process to increase potassium when it is too low in the body, and a process to decrease potassium when it is too high in the body. Any pair of processes like these, that have opposing effects, are said to have a(n)relationship.  a) Chemical b) Biological c) Co-regulatory d) Antagonistic e) Mutual
Answers to multiple choice questions:
1) E 2) B 3) A 4) B 5) C 6) B 7) D
Fill-in-the-blank review questions
1) Anatomy is the study of the and of the body parts, while physiology is the study of
2) Although physiology is classified as one of the biological sciences, much of physiology is involves the study of the of the body.
3) After each statement below, write A if it describes the anatomy of an organ. Write P if it describes the physiology of an organ.
a) The kidneys are located at the level of your lowest ribs
b) The innermost part of the kidney is called the renal pelvis
c) The kidneys use salt to remove water from the urine
d) Nerve cells use electricity to send signals between body parts
e) The brain and the spinal cord are made of nervous tissue
4) There are (a number) organ systems in the human body.
5) An organ is a structure made of several types of working together for a common task.

6) Several organs working together on a common task form a(n)
7) Arrange the following terms in the proper order, from smallest to largest:  Organ  Tissue  Organ system  Cell  Organelle
8) An organism's ability to maintain steady internal conditions in its internal environment (for example, our ability to maintain a constant body temperature) is called
9) From a physiological perspective, injury and disease are harmful because they cause loss of
10) Any two process that have opposing functions are called processes.
Answers to review questions:
1) Structure location how organs function 2) Chemistry
3) A A P P A 4) 12 5) Tissues 6) Organ system 7) Organelle Cell Tissue Organ Organ Organ system 8) Homeostasis 9) Homeostasis