

Exam 1 Alternative to the online exam on Blackboard

(Must be submitted to the instructor at the same due date as the due date for the online version.)

**01.** What type of fiber accounts for the strength of various connective tissues?

- A. elastic B. collagen C. actin D. reticular

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**02.** What type of tissue is striated, contains cells with one nucleus, and is not under voluntary control?

- A. skeletal muscle B. smooth muscle C. cardiac muscle D. nervous tissue

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**03.** Which of the following cell types is mismatched with its description?

- A. squamous epithelium – oval cells that store energy as fat  
B. cuboidal epithelium – cube-shaped cells that absorb molecules  
C. columnar epithelium – rectangular cells that line the digestive tract  
D. neuron – specialized cells composed of dendrites, a cell body, and an axon that conducts nerve impulses

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**04.** The correct sequence of increasing organizational complexity is

- A. organ, tissue, cell, organ system, organism. B. cell, organ, organ system, tissue, organism.  
C. cell, tissue, organ, organ system, organism. D. organism, tissue, cell, organ system, organ.  
E. tissue, cell, organ system, organism, organ.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 1, 31

**05.** What type of tissue lines body cavities and covers body surfaces?

- A. muscle tissue B. nervous tissue C. epithelial tissue D. connective tissue

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**06.** What type of tissue is responsible for contractions that account for movements of organs or the entire body?

- A. muscle tissue B. nervous tissue C. epithelial tissue D. connective tissue

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**07.** \_\_\_\_\_ is responsible for receiving, interpreting, and producing a response to stimuli.

- A. Muscle tissue
- B. Nervous tissue
- C. Epithelial tissue
- D. Connective tissue

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**08.** What type of tissue is bone and cartilage?

- A. muscle tissue
- B. nervous tissue
- C. epithelial tissue
- D. connective tissue

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**09.** The epidermis consists of

- A. stratified squamous epithelial cells.
- B. collagen fibers.
- C. elastic fibers.
- D. adipose tissue.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**10.** What tissue includes blood and adipose tissue?

- A. muscle tissue
- B. nervous tissue
- C. epithelial tissue
- D. connective tissue

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**11.** \_\_\_\_\_ prevent digestive juices from leaking between the epithelial cells that line the lumen of the intestine.

- A. Adhesion junctions (desmosomes)
- B. The size of the molecules of digestive juices
- C. Gap junctions
- D. Tight junctions

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**12.** Which of the following statements about epithelial tissue is NOT true?

- A. Squamous epithelium is composed of flattened cells.
- B. Columnar epithelium is cube-shaped with the nucleus near the upper surface of the cells.
- C. Simple epithelia have only a single layer of cells.
- D. Pseudostratified epithelium looks like it has multiple layers, but all the cells are attached to the basement membrane.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**13.** A thin layer of protein that anchors the epithelium to the extracellular matrix is the  
A. basement membrane. B. plasma membrane. C. compact bone. D. hyaline cartilage.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**14.** An average person has about \_\_\_\_\_ neurons.  
A. 100,000 B. 1 trillion C. 2 million D. 1 billion

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**15.** All of the following are functions of connective tissue EXCEPT to  
A. line body cavities and cover surfaces. B. bind and support body parts. C. store energy as fat. D. fill spaces.

Circle the answer letter letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**16.** Which statement is NOT true about cartilage?  
A. Cartilage cells are located in small spaces called lacunae. B. The matrix of cartilage includes calcium salts.  
C. The matrix of cartilage is both solid and flexible. D. The human fetal skeleton is made up of cartilage.

Circle the answer letter letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**17.** The matrix of cartilage includes calcium salts.  
A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**18.** The matrix of bone includes calcium salts.  
A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**19.** White blood cell fight infection by  
A. transporting large amounts of oxygen to the infected area.  
B. engulfing infectious pathogens and making antibodies.  
C. increasing platelet production and forming a plug to seal off the area.  
D. producing antibiotics that will kill bacteria and fungi.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**20. Skeletal muscle**

- A. is made of extremely small cells with one nucleus. B. is not under voluntary control.
- C. is found in the walls of the intestines and stomach.
- D. has bands of actin and myosin filaments perpendicular to the length of the cell.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**21. Which statement about the heart tissue is NOT correct?**

- A. The heart is composed mainly of cardiac muscle tissue.
- B. Cardiac muscle is not striated. C. Cardiac cells have a single central nucleus.
- D. Cardiac muscle cells are joined end to end by cell to cell junctions called intercalated disks.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**22. Which statement is NOT true about nervous tissue?**

- A. Cells in the nervous system that conduct electrical impulses are called neurons.
- B. Neuroglia support and protect neurons.
- C. The dendrites carry electrical impulses away from the cell body of the neuron.
- D. Nerve fibers are long axons covered by a myelin sheath.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**23. Which of the following is a function of the skin?**

- A. protecting underlying body parts from physical trauma
- B. thermoregulation, and preventing water loss
- C. monitor touch, pressure, temperature, and pain
- D. All of the answers provided here are a function of the skin.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**24. What processes are involved in getting a tan and then having it “fade” away?**

- A. After being exposed to sunlight, melanin is formed in the dead top epidermis to darken the cells, but quickly disintegrates.
- B. After being exposed to sunlight, melanocytes form melanin, but blood flow slowly carries melanin away and the tan fades.
- C. After being exposed to sunlight, melanocytes in the dividing layer of the epidermis produce more melanin and distribute it to epidermal cells. These epidermal cells are naturally pushed to the surface where they are sloughed off.
- D. After being exposed to sunlight, ultraviolet light damages the subcutaneous skin cells but these dark burned cells soon are dissolved and replaced in healing processes.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**25.** Usually it is not possible to penetrate inside a body cavity to reach interstitial spaces without cutting through some protective epidermal tissues. However, sperm reach the egg via the vagina, uterus, and fallopian tubes. Without crossing any epidermal barrier, the sperm finds the egg in what body cavity?

- A. abdominal cavity B. thoracic cavity C. pelvic cavity D. cranial cavity

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**26.** Homeostasis is the

- A. negative feedback loop that stimulates a response similar to the stimulus.  
B. dynamic interplay between events that tend to change the external environment and events that tend to keep it the same.  
C. the acquisition, transformation and use of energy.  
D. maintenance of normal internal conditions by means of self-regulating mechanisms.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (if needed continue on the back):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**27.** Which of the following statements concerning homeostasis in body temperature is NOT true? The body reacts to

- A. heat by stimulating the sweat glands.  
B. cold by contracting skeletal muscles in shivering.  
C. cold by rerouting blood away from the skin.  
D. heat by constricting the blood vessels in the skin.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**28.** Exocrine glands are classified as \_\_\_\_\_ tissue.

- A. epithelial B. connective C. muscle D. nervous

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**29.** Which of the following skin derivatives is mismatched with the organism on which it is found?

- A. mammals – hair and nails  
B. amphibians – epidermal scales  
C. fishes – bony scales  
D. birds – feathers

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**30.** Which is most closely associated with negative feedback?

- A. As you continue to turn a faucet handle, more water flows out of it.
- B. A child cuts his finger and the blood clotting process begins.
- C. As the temperature falls in a house, the heater comes on.
- D. As a woman goes into labor, hormones are secreted that stimulate the process.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**31.** What type of muscle tissue is found in the viscera of internal organs?

- A. skeletal B. smooth C. striate D. cardiac

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**32.** In lactation, the more a baby suckles his mother's breast to obtain milk, the more milk is produced. This is a  
A. positive feedback loop. B. negative feedback loop.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**33.** White blood cells are small, biconcave blood cells that transport oxygen.

- A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**34.** Platelets are fragments of a cell that are involved in the clotting of blood.

- A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**35.** Study the figure in your textbook illustrating the composition of blood (chapter 32).

True or false: Blood is 90 - 92 percent water.

- A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: (31), 32

**36.** Use your textbook (or your your lab manual, chapter 42, p. 475) to answer

True or false: The scientific name for the collarbone is scapula.

Circle the answer letter (and bubble the scantron form IF required)

- A. True B. False

Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**Question 37 - 40.** Select the correct scientific bone name for the described bone or named with the common name or (Suggestion: Use your lab manual, chapter 42, p. 475):

**37.** Collarbone:

A. Radius B. Scapula C. Humerus D. Clavicle

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (3 lines -- 3 times -- spelling must be correct):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**38.** Shoulder blade:

A. Radius B. Scapula C. Humerus D. Clavicle

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (3 lines -- 3 times -- spelling must be correct):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**39.** Upper arm:

A. Radius B. Scapula C. Humerus D. Clavicle

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31,39

**40.** Bone in the forearm on the side of the thumb:

A. Radius B. Scapula C. Humerus D. Clavicle

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**41.** Use your textbook (or your your lab manual, chapter 42, p. 475) to answer

True or false: The scientific name for the shoulder blade is clavicle.

Circle the answer letter (and bubble the scantron form IF required)

A. True B. False

Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**Question 42 - 45.** Select the correct scientific bone name for the described bone or named with the common name or (Suggestion: Use your lab manual, chapter 42, p. 475):

**42.** Thigh bone:

A. Tibia B. Fibula C. Femur D. Patella

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (3 lines -- 3 times -- spelling must be correct):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**43.** Shin bone:

A. Tibia B. Fibula C. Femur D. Patella

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**44.** Knee cap:

A. Tibia B. Fibula C. Femur D. Patella

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (3 lines -- 3 times -- spelling must be correct):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**45.** Slender bone below the knee:

A. Tibia B. Fibula C. Femur D. Patella

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (2 lines -- 2 times -- spelling must be correct):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**46.** Use your textbook (or your your lab manual, chapter 42, p. 475) to answer True or false: The scientific name for the shin bone is fibula.

Circle the answer letter (and bubble the scantron form IF required)

A. True B. False

Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**47.** Use your textbook (or your your lab manual, chapter 42, p. 475) to answer  
True or false: Many bones -- for example, those in our arms and in bird's wings -- are homologous.  
A. True B. False

Circle the answer letter (and bubble the scantron form IF required), AND write the term homologous on the line (3 lines -- 3 times -- spelling must be correct).

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Topic area: Animal Organization and Homeostasis Chapter reference: (15), 31, 39

**48.** Use your textbook (or your your lab manual, chapter 42, p. 475) to answer  
True or false: Homologous means that bones e.g. those in our arms and in bird's wings -- have the same basic structure and origin because they were inherited from a common ancestor).

Circle the answer letter (and bubble the scantron form IF required)

A. True B. False

Topic area: Animal Organization and Homeostasis Chapter reference: (15), 31, 39

**49.** Use your textbook chapter 15, p. 278 (or your your lab manual, chapter 42, p. 475) to answer

True or false: Homologous structures provide evidence that organisms have a common ancestor.

Circle the answer letter (and bubble the scantron form IF required)

A. True B. False

Topic area: Animal Organization and Homeostasis Chapter reference: 15

**50.** Which of these components of blood fights infection?

A. red blood cells B. white blood cells C. platelets D. hydrogen ions

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (3 lines -- 3 times -- spelling must be correct):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 32

**51.** Which of these components of blood transport oxygen?

A. red blood cells B. white blood cells C. platelets D. hydrogen ions

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (3 lines -- 3 times -- spelling must be correct):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 32

**52.** Which of these components of blood is necessary to blood clotting?  
A. red blood cells B. white blood cells C. platelets D. hydrogen ions

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (3 lines -- 3 times -- spelling must be correct):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 32

**53.** Which tissue is more apt to line a lumen?  
A. epithelial tissue B. connective tissue C. nervous tissue D. muscular tissue

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**54.** Groups of similar cells combined to perform a common function?  
A. tissue B. organ C. organ system D. organism

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (3 lines -- 3 times -- spelling must be correct):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**55.** Combination of two or more different tissues performing a common function?  
A. tissue B. organ C. organ system D. organism

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (2 lines -- 2 times -- spelling must be correct):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 32

**56.** Group of related organs working together?  
A. tissue B. organ C. organ system D. organism

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line.

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

You have now answered all questions in the “question set” found on Blackboard (or similar slightly modified since some formats can only be used on Blackboard). The questions 56 questions above will now be repeated to reinforce the material, just as the method used on Blackboard. The questions are not in the same order as above, multiple choice questions may have the answers in a different order, and true or false questions may have be modified -- what was true before may have been rewritten and be false when repeated.

**57.** Homeostasis is the

- A. the acquisition, transformation and use of energy.
- B. maintenance of normal internal conditions by means of self-regulating mechanisms.
- C. negative feedback loop that stimulates a response similar to the stimulus.
- D. dynamic interplay between events that tend to change the external environment and events that tend to keep it the same.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (if needed continue on the back):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**58.** Which of these components of blood is necessary to blood clotting?

- A. red blood cells
- B. platelets
- C. white blood cells
- D. hydrogen ions

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (2 lines -- 2 times -- spelling must be correct):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 32

**59.** An average person has about \_\_\_\_\_ neurons.

- A. 100,000
- B. 1 trillion
- C. 2 million
- D. 1 billion

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**60.** What tissue includes blood and adipose tissue?

- A. muscle tissue
- B. nervous tissue
- C. epithelial tissue
- D. connective tissue

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**61.** What type of muscle tissue is found in the viscera of internal organs?

- A. skeletal
- B. smooth
- C. striate
- D. cardiac

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**62.** In lactation, the more a baby suckles his mother's breast to obtain milk, the more milk is produced. This is a  
A. positive feedback loop. B. negative feedback loop.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**63.** White blood cells are small, biconcave blood cells that transport oxygen.

A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**64.** Platelets are fragments of a cell that are involved in the clotting of blood.

A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**65.** Study the figure in your textbook illustrating the composition of blood (chapter 32).

True or false: Blood is 90 - 92 percent water.

A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: (31), 32

**66.** Use your textbook (or your your lab manual, chapter 42, p. 475) to answer

True or false: The scientific name for the collarbone is scapula.

Circle the answer letter (and bubble the scantron form IF required)

A. True B. False

Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**Question 67 - 71.** Select the correct scientific bone name for the described bone or named with the common name or  
(Suggestion: Use your lab manual, chapter 42, p. 475):

**67.** Collarbone:

A. Radius B. Scapula C. Humerus D. Clavicle

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**68.** Shoulder blade:

A. Radius B. Scapula C. Humerus D. Clavicle

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**69.** Upper arm:

A. Radius B. Scapula C. Humerus D. Clavicle

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**70.** Bone in the forearm on the side of the thumb:

A. Radius B. Scapula C. Humerus D. Clavicle

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**71.** What tissue includes blood and adipose tissue?

A. muscle tissue B. nervous tissue C. epithelial tissue D. connective tissue

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**72.** The epidermis consists of

A. stratified squamous epithelial cells. B. collagen fibers. C. elastic fibers. D. adipose tissue.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**73.** What type of tissue is bone and cartilage?

A. muscle tissue B. nervous tissue C. epithelial tissue D. connective tissue

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**74.** \_\_\_\_\_ is responsible for receiving, interpreting, and producing a response to stimuli.

A. Muscle tissue B. Nervous tissue C. Epithelial tissue D. Connective tissue

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**75.** What type of tissue is responsible for contractions that account for movements of organs or the entire body?

A. muscle tissue B. nervous tissue C. epithelial tissue D. connective tissue

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**76.** What type of tissue lines body cavities and covers body surfaces?  
A. muscle tissue B. nervous tissue C. epithelial tissue D. connective tissue

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**77.** What type of fiber accounts for the strength of various connective tissues?  
A. elastic B. collagen C. actin D. reticular

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**78.** What type of tissue is striated, contains cells with one nucleus, and is not under voluntary control?  
A. skeletal muscle B. smooth muscle C. cardiac muscle D. nervous tissue

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**79.** Which of the following cell types is mismatched with its description?

- A. squamous epithelium – oval cells that store energy as fat
- B. cuboidal epithelium – cube-shaped cells that absorb molecules
- C. columnar epithelium – rectangular cells that line the digestive tract
- D. neuron – specialized cells composed of dendrites, a cell body, and an axon that conducts nerve impulses

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**80.** The correct sequence of increasing organizational complexity is  
A. organ, tissue, cell, organ system, organism. B. cell, organ, organ system, tissue, organism.  
C. cell, tissue, organ, organ system, organism. D. organism, tissue, cell, organ system, organ.  
E. tissue, cell, organ system, organism, organ.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**81.** Which of the following statements concerning homeostasis in body temperature is NOT true? The body reacts to  
A. heat by stimulating the sweat glands.  
B. cold by contracting skeletal muscles in shivering.  
C. cold by rerouting blood away from the skin.  
D. heat by constricting the blood vessels in the skin.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**82.** Exocrine glands are classified as \_\_\_\_\_ tissue.

- A. epithelial B. connective C. muscle D. nervous

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**83.** Which of the following skin derivatives is mismatched with the organism on which it is found?

- A. mammals – hair and nails  
B. amphibians – epidermal scales  
C. fishes – bony scales  
D. birds - feathers

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**84.** Which is most closely associated with negative feedback?

- A. As you continue to turn a faucet handle, more water flows out of it.  
B. A child cuts his finger and the blood clotting process begins.  
C. As the temperature falls in a house, the heater comes on.  
D. As a woman goes into labor, hormones are secreted that stimulate the process.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**85.** What type of muscle tissue is found in the viscera of internal organs?

- A. skeletal B. smooth C. striate D. cardiac

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**86.** In lactation, the more a baby suckles his mother's breast to obtain milk, the more milk is produced. This is a

- A. positive feedback loop. B. negative feedback loop.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**87.** White blood cells are small, biconcave blood cells that transport oxygen.

- A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**88.** Platelets are fragments of a cell that are involved in the clotting of blood.

A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**89.** Study the figure in your textbook illustrating the composition of blood (chapter 32).

True or false: Blood is 90 - 92 percent water.

A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: (31), 32

**90.** Use your textbook (or your your lab manual, chapter 42, p. 475) to answer

True or false: The scientific name for the collarbone is scapula.

Circle the answer letter (and bubble the scantron form IF required)

A. True B. False

Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**91.** Group of related organs working together?

A. tissue B. organ C. organ system D. organism

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (3 times):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**92.** Groups of similar cells combined to perform a common function?

A. tissue B. organ C. organ system D. organism

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (3 times):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**93.** Combination of two or more different tissues performing a common function?

A. tissue B. organ C. organ system D. organism

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (3 times):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 32

**94.** What type of tissue lines body cavities and covers body surfaces?

A. muscle tissue B. nervous tissue C. epithelial tissue D. connective tissue

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**95.** What type of tissue is responsible for contractions that account for movements of organs or the entire body?

A. muscle tissue B. nervous tissue C. epithelial tissue D. connective tissue

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**96.** \_\_\_\_\_ is responsible for receiving, interpreting, and producing a response to stimuli.

A. Muscle tissue

B. Nervous tissue

C. Epithelial tissue

D. Connective tissue

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**97.** What type of tissue is bone and cartilage?

A. muscle tissue B. nervous tissue C. epithelial tissue D. connective tissue

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**98.** The epidermis consists of

A. stratified squamous epithelial cells. B. collagen fibers. C. elastic fibers. D. adipose tissue.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**99.** What tissue includes blood and adipose tissue?

A. muscle tissue B. nervous tissue C. epithelial tissue D. connective tissue

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**100.** \_\_\_\_\_ prevent digestive juices from leaking between the epithelial cells that line the lumen of the intestine.

A. Adhesion junctions (desmosomes) B. The size of the molecules of digestive juices C. Gap junctions D. Tight junctions

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**101.** Which of the following statements about epithelial tissue is NOT true?

- A. Squamous epithelium is composed of flattened cells.
- B. Columnar epithelium is cube-shaped with the nucleus near the upper surface of the cells.
- C. Simple epithelia have only a single layer of cells.
- D. Pseudostratified epithelium looks like it has multiple layers, but all the cells are attached to the basement membrane.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**102.** A thin layer of protein that anchors the epithelium to the extracellular matrix is the

- A. basement membrane. B. plasma membrane. C. compact bone. D. hyaline cartilage.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**103.** An average person has about \_\_\_\_\_ neurons.

- A. 100,000 B. 1 trillion C. 2 million D. 1 billion

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**104.** All of the following are functions of connective tissue EXCEPT to

- A. line body cavities and cover surfaces. B. bind and support body parts. C. store energy as fat. D. fill spaces.

Circle the answer letter letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**105.** Use your textbook (or your your lab manual, chapter 42, p. 475) to answer

True or false: Homologous means that bones e.g. those in our arms and in bird's wings -- have the same basic structure and origin because they were inherited from a common ancestor).

Circle the answer letter (and bubble the scantron form IF required)

- A. True B. False

Topic area: Animal Organization and Homeostasis Chapter reference: (15), 31, 39

**106.** Which statement is NOT true about cartilage?

- A. Cartilage cells are located in small spaces called lacunae. B. The matrix of cartilage includes calcium salts.
- C. The matrix of cartilage is both solid and flexible. D. The human fetal skeleton is made up of cartilage.

Circle the answer letter letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**107.** The matrix of cartilage includes calcium salts.

A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**108.** The matrix of bone includes calcium salts.

A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**109.** White blood cell fight infection by

- A. transporting large amounts of oxygen to the infected area.
- B. increasing platelet production and forming a plug to seal off the area.
- C. producing antibiotics that will kill bacteria and fungi.
- B. engulfing infectious pathogens and making antibodies.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**110.** Skeletal muscle

- A. is made of extremely small cells with one nucleus. B. is not under voluntary control.
- C. is found in the walls of the intestines and stomach.
- D. has bands of actin and myosin filaments perpendicular to the length of the cell.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**111.** Which statement about the heart tissue is NOT correct?

- A. The heart is composed mainly of cardiac muscle tissue.
- B. Cardiac muscle is not striated. C. Cardiac cells have a single central nucleus.
- D. Cardiac muscle cells are joined end to end by cell to cell junctions called intercalated disks.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**112.** Which statement is NOT true about nervous tissue?

- A. Cells in the nervous system that conduct electrical impulses are called neurons.
- B. Neuroglia support and protect neurons.
- C. The dendrites carry electrical impulses away from the cell body of the neuron.
- D. Nerve fibers are long axons covered by a myelin sheath.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**113.** Which of the following is a function of the skin?

- A. protecting underlying body parts from physical trauma
- B. thermoregulation, and preventing water loss
- C. monitor touch, pressure, temperature, and pain
- D. All of the answers provided here are a function of the skin.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**114.** What processes are involved in getting a tan and then having it “fade” away?

- A. After being exposed to sunlight, melanin is formed in the dead top epidermis to darken the cells, but quickly disintegrates.
- B. After being exposed to sunlight, melanocytes form melanin, but blood flow slowly carries melanin away and the tan fades.
- C. After being exposed to sunlight, melanocytes in the dividing layer of the epidermis produce more melanin and distribute it to epidermal cells. These epidermal cells are naturally pushed to the surface where they are sloughed off.
- D. After being exposed to sunlight, ultraviolet light damages the subcutaneous skin cells but these dark burned cells soon are dissolved and replaced in healing processes.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**115.** Usually it is not possible to penetrate inside a body cavity to reach interstitial spaces without cutting through some protective epidermal tissues. However, sperm reach the egg via the vagina, uterus, and fallopian tubes. Without crossing any epidermal barrier, the sperm finds the egg in what body cavity?

- A. pelvic cavity
- B. thoracic cavity
- C. abdominal cavity
- D. cranial cavity

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**116.** Homeostasis is the

- A. negative feedback loop that stimulates a response similar to the stimulus.
- B. dynamic interplay between events that tend to change the external environment and events that tend to keep it the same.
- C. maintenance of normal internal conditions by means of self-regulating mechanisms.
- D. the acquisition, transformation and use of energy.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**117.** Which of the following statements concerning homeostasis in body temperature is NOT true? The body reacts to

- A. heat by constricting the blood vessels in the skin.
- B. heat by stimulating the sweat glands.
- C. cold by contracting skeletal muscles in shivering.
- D. cold by rerouting blood away from the skin.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**118.** Exocrine glands are classified as \_\_\_\_\_ tissue.

A. muscle B. connective C. epithelial D. nervous

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**119.** Which of the following skin derivatives is mismatched with the organism on which it is found?

A. amphibians – epidermal scales

B. mammals – hair and nails

C. fishes – bony scales

D. birds - feathers

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**120.** Which is most closely associated with negative feedback?

A. As you continue to turn a faucet handle, more water flows out of it.

B. As the temperature falls in a house, the heater comes on.

C. A child cuts his finger and the blood clotting process begins.

D. As a woman goes into labor, hormones are secreted that stimulate the process.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**121.** Use your textbook chapter 15, p. 278 (or your your lab manual, chapter 42, p. 475) to answer

True or false: Homologous structures provide evidence that organisms have a common ancestor.

Circle the answer letter (and bubble the scantron form IF required)

A. True B. False

Topic area: Animal Organization and Homeostasis Chapter reference: 15

**122.** Use your textbook (or your your lab manual, chapter 42, p. 475) to answer

True or false: Homologous means that bones e.g. those in our arms and in bird's wings -- have the same basic structure and origin because they were inherited from a common ancestor).

Circle the answer letter (and bubble the scantron form IF required)

A. True B. False

Topic area: Animal Organization and Homeostasis Chapter reference: (15), 31, 39

**123.** Use your textbook (or your your lab manual, chapter 42, p. 475) to answer

True or false: The scientific name for the collarbone is scapula.

Circle the answer letter (and bubble the scantron form IF required)

A. True B. False

Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**124.** White blood cells are small, biconcave blood cells that transport oxygen.

A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**125.** Platelets are fragments of a cell that are involved in the clotting of blood.

A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**126.** Study the figure in your textbook illustrating the composition of blood (chapter 32).

True or false: Blood is 90 - 92 percent water.

A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: (31), 32

**127.** Use your textbook (or your your lab manual, chapter 42, p. 475) to answer

True or false: Homologous means that bones e.g. those in our arms and in bird's wings -- have the same basic structure and origin because they were inherited from a common ancestor).

Circle the answer letter (and bubble the scantron form IF required)

A. True B. False

Topic area: Animal Organization and Homeostasis Chapter reference: (15), 31, 39

**128.** Use your textbook chapter 15, p. 278 (or your your lab manual, chapter 42, p. 475) to answer

True or false: Homologous structures provide evidence that organisms have a common ancestor.

Circle the answer letter (and bubble the scantron form IF required)

A. True B. False

Topic area: Animal Organization and Homeostasis Chapter reference: 15

**129.** Use your textbook (or your your lab manual, chapter 42, p. 475) to answer

True or false: The scientific name for the collarbone is scapula.

Circle the answer letter (and bubble the scantron form IF required)

A. True B. False

Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**130.** The matrix of cartilage includes calcium salts.

A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**131.** Which is most closely associated with negative feedback?

A. As you continue to turn a faucet handle, more water flows out of it.

B. A child cuts his finger and the blood clotting process begins.

C. As the temperature falls in a house, the heater comes on.

D. As a woman goes into labor, hormones are secreted that stimulate the process.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (2 lines -- 2 times -- spelling must be correct):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**132.** What type of muscle tissue is found in the viscera of internal organs?

A. skeletal B. smooth C. striate D. cardiac

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**133.** In lactation, the more a baby suckles his mother's breast to obtain milk, the more milk is produced. This is a

A. positive feedback loop. B. negative feedback loop.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**134.** White blood cells are small, biconcave blood cells that transport oxygen.

A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**135.** Platelets are fragments of a cell that are involved in the clotting of blood.

A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**136.** Study the figure in your textbook illustrating the composition of blood (chapter 32).

True or false: Blood is 90 - 92 percent water.

A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: (31), 32

**137.** Use your textbook (or your your lab manual, chapter 42, p. 475) to answer

True or false: The scientific name for the collarbone is scapula.

Circle the answer letter (and bubble the scantron form IF required)

A. True B. False

Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**Question 138 - 141.** Select the correct scientific bone name for the described bone or named with the common name or (Suggestion: Use your lab manual, chapter 42, p. 475):

**138.** Collarbone:

A. Radius B. Scapula C. Humerus D. Clavicle

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (2 lines):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**139.** Shoulder blade:

- A. Radius B. Scapula C. Humerus D. Clavicle

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (3 lines -- 3 times -- spelling must be correct):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**140.** Upper arm:

- A. Radius B. Scapula C. Humerus D. Clavicle

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31,39

**141.** Bone in the forearm on the side of the thumb:

- A. Radius B. Scapula C. Humerus D. Clavicle

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**142.** Use your textbook (or your your lab manual, chapter 42, p. 475) to answer

True or false: The scientific name for the shoulder blade is clavicle.

Circle the answer letter (and bubble the scantron form IF required)

- A. True B. False

Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**Question 143 - 146.** Select the correct scientific bone name for the described bone or named with the common name or (Suggestion: Use your lab manual, chapter 42, p. 475):

**143.** Thigh bone:

- A. Tibia B. Fibula C. Femur D. Patella

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (4 lines -- 4 times -- spelling must be correct):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**144.** Shin bone:

- A. Tibia B. Fibula C. Femur D. Patella

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**145.** Knee cap:

- A. Tibia B. Fibula C. Femur D. Patella

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (3 lines -- 3 times -- spelling must be correct):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**146.** Slender bone below the knee:

- A. Tibia B. Fibula C. Femur D. Patella

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (2 lines -- 2 times -- spelling must be correct):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**147.** Which of the following skin derivatives is mismatched with the organism on which it is found?

- A. mammals – hair and nails  
B. fishes – bony scales  
C. birds - feathers  
D. amphibians – epidermal scales

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**148.** Use your textbook (or your your lab manual, chapter 42, p. 475) to answer

True or false: The scientific name for the shin bone is fibula.

Circle the answer letter (and bubble the scantron form IF required)

- A. True B. False

Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**149.** Use your textbook (or your your lab manual, chapter 42, p. 475) to answer  
True or false: Many bones -- for example, those in our arms and in bird's wings -- are homologous.  
A. True B. False

Circle the answer letter (and bubble the scantron form IF required), AND write the term homologous on the line (3 lines -- 3 times -- spelling must be correct).

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Topic area: Animal Organization and Homeostasis Chapter reference: (15), 31, 39

**150.** Use your textbook (or your your lab manual, chapter 42, p. 475) to answer  
True or false: Homologous means that bones e.g. those in our arms and in bird's wings -- have the same basic structure and origin because they were inherited from a common ancestor).

Circle the answer letter (and bubble the scantron form IF required)

A. True B. False

Topic area: Animal Organization and Homeostasis Chapter reference: (15), 31, 39

**151.** Use your textbook chapter 15, p. 278 (or your your lab manual, chapter 42, p. 475) to answer

True or false: Homologous structures provide evidence that organisms have a common ancestor.

Circle the answer letter (and bubble the scantron form IF required)

A. True B. False

Topic area: Animal Organization and Homeostasis Chapter reference: 15

**152.** Which of these components of blood fights infection?

A. red blood cells B. white blood cells C. platelets D. hydrogen ions

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (4 lines -- 4 times -- spelling must be correct):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31, 32

**153.** The correct sequence of increasing organizational complexity is

A. organ, tissue, cell, organ system, organism. B. cell, organ, organ system, tissue, organism.

C. organism, tissue, cell, organ system, organ. D. cell, tissue, organ, organ system, organism.

E. tissue, cell, organ system, organism, organ.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 1, 31

**154.** The correct sequence of increasing organizational complexity is

- A. organ, tissue, cell, organ system, organism.
- B. cell, tissue, organ, organ system, organism.
- C. organism, tissue, cell, organ system, organ.
- D. cell, organ, organ system, tissue, organism.
- E. tissue, cell, organ system, organism, organ.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 1, 31

**155.** The correct sequence of increasing organizational complexity is

- A. organ, tissue, cell, organ system, organism.
- B. cell, organ, organ system, tissue, organism.
- C. organism, tissue, cell, organ system, organ.
- D. cell, tissue, organ, organ system, organism.
- E. tissue, cell, organ system, organism, organ.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 1, 31

**156.** The correct sequence of increasing organizational complexity is

- A. organ, tissue, cell, organ system, organism.
- B. cell, organ, organ system, tissue, organism.
- C. cell, tissue, organ, organ system, organism.
- D. organism, tissue, cell, organ system, organ.
- E. tissue, cell, organ system, organism, organ.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 1, 31

**157.** The correct sequence of increasing organizational complexity is

- A. organ, tissue, cell, organ system, organism.
- B. cell, organ, organ system, tissue, organism.
- C. cell, tissue, organ, organ system, organism.
- D. organism, tissue, cell, organ system, organ.
- E. tissue, cell, organ system, organism, organ.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 1, 31

**158.** The correct sequence of increasing organizational complexity is

- A. organ, tissue, cell, organ system, organism.
- B. cell, organ, organ system, tissue, organism.
- C. organell cell, tissue, organ, organ system, organism, population.
- D. organism, tissue, cell, organ system, organ.
- E. tissue, cell, organ system, organism, organ.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (2 lines -- 2 times -- spelling must be correct):

---

Topic area: Animal Organization and Homeostasis Chapter reference: 1, 31

**159.** White blood cell fight infection by

- A. transporting large amounts of oxygen to the infected area.
- B. engulfing infectious pathogens and making antibodies.
- C. increasing platelet production and forming a plug to seal off the area.
- D. producing antibiotics that will kill bacteria and fungi.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**160.** Use your textbook (or your your lab manual, chapter 42, p. 475) to answer

True or false: Many bones -- for example, those in our arms and in bird's wings -- are homologous.

- A. True B. False

Circle the answer letter (and bubble the scantron form IF required), AND write the term homologous on the line (3 lines -- 3 times -- spelling must be correct).

---

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Topic area: Animal Organization and Homeostasis Chapter reference: (15), 31, 39

**161.** \_\_\_\_\_ prevent digestive juices from leaking between the epithelial cells that line the lumen of the intestine.

- A. Adhesion junctions (desmosomes) B. The size of the molecules of digestive juices C. Gap junctions D. Tight junctions

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**162.** Which of the following statements about epithelial tissue is NOT true?

- A. Squamous epithelium is composed of flattened cells.
- B. Columnar epithelium is cube-shaped with the nucleus near the upper surface of the cells.
- C. Simple epithelia have only a single layer of cells.
- D. Pseudostratified epithelium looks like it has multiple layers, but all the cells are attached to the basement membrane.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**163.** A thin layer of protein that anchors the epithelium to the extracellular matrix is the

- A. basement membrane. B. plasma membrane. C. compact bone. D. hyaline cartilage.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**164.** An average person has about \_\_\_\_\_ neurons.

- A. 100,000 B. 1 trillion C. 2 million D. 1 billion

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**165.** All of the following are functions of connective tissue EXCEPT to

- A. line body cavities and cover surfaces. B. bind and support body parts. C. store energy as fat. D. fill spaces.

Circle the answer letter letter (and bubble the scantron form IF required), AND write the correct answer on the line:

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**166.** Which statement is NOT true about cartilage?

- A. Cartilage cells are located in small spaces called lacunae. B. The matrix of cartilage includes calcium salts.  
C. The matrix of cartilage is both solid and flexible. D. The human fetal skeleton is made up of cartilage.

Circle the answer letter letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**167.** The matrix of cartilage includes calcium salts.

- A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**168.** The matrix of bone includes calcium salts.

- A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**169.** White blood cell fight infection by

- A. transporting large amounts of oxygen to the infected area. B. engulfing infectious pathogens and making antibodies.  
C. increasing platelet production and forming a plug to seal off the area.  
D. producing antibiotics that will kill bacteria and fungi.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**170.** Skeletal muscle

- A. is made of extremely small cells with one nucleus. B. is not under voluntary control.  
C. is found in the walls of the intestines and stomach.  
D. has bands of actin and myosin filaments perpendicular to the length of the cell.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**171.** Which statement about the heart tissue is NOT correct?

- A. The heart is composed mainly of cardiac muscle tissue.
- B. Cardiac muscle is not striated.
- C. Cardiac cells have a single central nucleus.
- D. Cardiac muscle cells are joined end to end by cell to cell junctions called intercalated disks.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**172.** Which statement is NOT true about nervous tissue?

- A. Cells in the nervous system that conduct electrical impulses are called neurons.
- B. Neuroglia support and protect neurons.
- C. The dendrites carry electrical impulses away from the cell body of the neuron.
- D. Nerve fibers are long axons covered by a myelin sheath.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**173.** Which of the following is a function of the skin?

- A. protecting underlying body parts from physical trauma
- B. thermoregulation, and preventing water loss
- C. monitor touch, pressure, temperature, and pain
- D. All of the answers provided here are a function of the skin.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**174.** What processes are involved in getting a tan and then having it “fade” away?

- A. After being exposed to sunlight, melanin is formed in the dead top epidermis to darken the cells, but quickly disintegrates.
- B. After being exposed to sunlight, melanocytes form melanin, but blood flow slowly carries melanin away and the tan fades.
- C. After being exposed to sunlight, melanocytes in the dividing layer of the epidermis produce more melanin and distribute it to epidermal cells. These epidermal cells are naturally pushed to the surface where they are sloughed off.
- D. After being exposed to sunlight, ultraviolet light damages the subcutaneous skin cells but these dark burned cells soon are dissolved and replaced in healing processes.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**175.** Usually it is not possible to penetrate inside a body cavity to reach interstitial spaces without cutting through some protective epidermal tissues. However, sperm reach the egg via the vagina, uterus, and fallopian tubes. Without crossing any epidermal barrier, the sperm finds the egg in what body cavity?

- A. abdominal cavity
- B. thoracic cavity
- C. pelvic cavity
- D. cranial cavity

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**176.** Homeostasis is the

- A. negative feedback loop that stimulates a response similar to the stimulus.
- B. dynamic interplay between events that tend to change the external environment and events that tend to keep it the same.
- C. the acquisition, transformation and use of energy.
- D. maintenance of normal internal conditions by means of self-regulating mechanisms.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (if needed continue on the back):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**177.** Which of the following statements concerning homeostasis in body temperature is NOT true? The body reacts to

- A. heat by stimulating the sweat glands.
- B. cold by contracting skeletal muscles in shivering.
- C. cold by rerouting blood away from the skin.
- D. heat by constricting the blood vessels in the skin.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**178.** Exocrine glands are classified as \_\_\_\_\_ tissue.

- A. epithelial
- B. connective
- C. muscle
- D. nervous

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**179.** Which of the following skin derivatives is mismatched with the organism on which it is found?

- A. mammals – hair and nails
- B. amphibians – epidermal scales
- C. fishes – bony scales
- D. birds - feathers

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**180.** Which is most closely associated with negative feedback?

- A. As you continue to turn a faucet handle, more water flows out of it.
- B. A child cuts his finger and the blood clotting process begins.
- C. As the temperature falls in a house, the heater comes on.
- D. As a woman goes into labor, hormones are secreted that stimulate the process.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**181.** Use your textbook (or your your lab manual, chapter 42, p. 475) to answer

True or false: Homologous means that bones e.g. those in our arms and in bird's wings -- have the same basic structure and origin because they were inherited from a common ancestor).

Circle the answer letter (and bubble the scantron form IF required)

A. True B. False

Topic area: Animal Organization and Homeostasis Chapter reference: (15), 31, 39

**182.** Use your textbook chapter 15, p. 278 (or your your lab manual, chapter 42, p. 475) to answer

True or false: Homologous structures provide evidence that organisms have a common ancestor.

Circle the answer letter (and bubble the scantron form IF required)

A. True B. False

Topic area: Animal Organization and Homeostasis Chapter reference: 15

**183.** All of the following are functions of connective tissue EXCEPT to

A. line body cavities and cover surfaces. B. bind and support body parts. C. store energy as fat. D. fill spaces.

Circle the answer letter letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**184.** Which statement is NOT true about cartilage?

A. Cartilage cells are located in small spaces called lacunae. B. The matrix of cartilage includes calcium salts.  
C. The matrix of cartilage is both solid and flexible. D. The human fetal skeleton is made up of cartilage.

Circle the answer letter letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**185.** What type of fiber accounts for the strength of various connective tissues?

A. elastic B. collagen C. actin D. reticular

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**186.** What type of tissue is striated, contains cells with one nucleus, and is not under voluntary control?

A. skeletal muscle B. smooth muscle C. cardiac muscle D. nervous tissue

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**187.** Which of the following cell types is mismatched with its description?

A. squamous epithelium – oval cells that store energy as fat B. cuboidal epithelium – cube-shaped cells that absorb molecules  
C. columnar epithelium – rectangular cells that line the digestive tract  
D. neuron – specialized cells composed of dendrites, a cell body, and an axon that conducts nerve impulses

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**188.** Which of the following is a function of the skin?

- A. protecting underlying body parts from physical trauma
- B. thermoregulation, and preventing water loss
- C. monitor touch, pressure, temperature, and pain
- D. All of the answers provided here are a function of the skin.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**189.** What processes are involved in getting a tan and then having it “fade” away?

- A. After being exposed to sunlight, melanin is formed in the dead top epidermis to darken the cells, but quickly disintegrates.
- B. After being exposed to sunlight, melanocytes form melanin, but blood flow slowly carries melanin away and the tan fades.
- D. After being exposed to sunlight, ultraviolet light damages the subcutaneous skin cells but these dark burned cells soon are dissolved and replaced in healing processes.
- C. After being exposed to sunlight, melanocytes in the dividing layer of the epidermis produce more melanin and distribute it to epidermal cells. These epidermal cells are naturally pushed to the surface where they are sloughed off.
- D. After being exposed to sunlight, ultraviolet light damages the subcutaneous skin cells but these dark burned cells soon are dissolved and replaced in healing processes.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**190.** Usually it is not possible to penetrate inside a body cavity to reach interstitial spaces without cutting through some protective epidermal tissues. However, sperm reach the egg via the vagina, uterus, and fallopian tubes. Without crossing any epidermal barrier, the sperm finds the egg in what body cavity?

- A. abdominal cavity
- B. thoracic cavity
- C. pelvic cavity
- D. cranial cavity

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (2 lines -- 2 times -- spelling must be correct):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**191.** Which statement is NOT true about cartilage?

- A. Cartilage cells are located in small spaces called lacunae.
- B. The matrix of cartilage includes calcium salts.
- C. The matrix of cartilage is both solid and flexible.
- D. The human fetal skeleton is made up of cartilage.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (2 lines -- 2 times -- spelling must be correct):

---

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**192.** The matrix of cartilage includes calcium salts.

A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: 31

**193.** The matrix of bone includes calcium salts.

A. True B. False

Circle the answer letter (and bubble the scantron form IF required)

Topic area: Animal Organization and Homeostasis Chapter reference: 31, 39

**194.** White blood cell fight infection by

- A. transporting large amounts of oxygen to the infected area.
- B. engulfing infectious pathogens and making antibodies.
- C. increasing platelet production and forming a plug to seal off the area.
- D. producing antibiotics that will kill bacteria and fungi.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (2 lines -- 2 times -- spelling must be correct):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**195.** Skeletal muscle

- A. is made of extremely small cells with one nucleus. B. is not under voluntary control.
- C. is found in the walls of the intestines and stomach.
- D. has bands of actin and myosin filaments perpendicular to the length of the cell.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (2 lines -- 2 times -- spelling must be correct):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**196.** Which statement about the heart tissue is NOT correct?

- A. The heart is composed mainly of cardiac muscle tissue.
- B. Cardiac muscle is not striated. C. Cardiac cells have a single central nucleus.
- D. Cardiac muscle cells are joined end to end by cell to cell junctions called intercalated disks.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (2 lines -- 2 times -- spelling must be correct):

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**197.** Which statement is NOT true about nervous tissue?

- A. Cells in the nervous system that conduct electrical impulses are called neurons.
- B. Neuroglia support and protect neurons.
- C. The dendrites carry electrical impulses away from the cell body of the neuron.
- D. Nerve fibers are long axons covered by a myelin sheath.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (2 lines -- 2 times -- spelling must be correct).:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**198.** Which of the following is a function of the skin?

- A. protecting underlying body parts from physical trauma
- B. thermoregulation, and preventing water loss
- C. monitor touch, pressure, temperature, and pain
- D. All of the answers provided here are a function of the skin.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (2 lines -- 2 times -- spelling must be correct).:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**199.** What processes are involved in getting a tan and then having it “fade” away?

- A. After being exposed to sunlight, melanin is formed in the dead top epidermis to darken the cells, but quickly disintegrates.
- B. After being exposed to sunlight, melanocytes form melanin, but blood flow slowly carries melanin away and the tan fades.
- C. After being exposed to sunlight, melanocytes in the dividing layer of the epidermis produce more melanin and distribute it to epidermal cells. These epidermal cells are naturally pushed to the surface where they are sloughed off.
- D. After being exposed to sunlight, ultraviolet light damages the subcutaneous skin cells but these dark burned cells soon are dissolved and replaced in healing processes.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line (2 lines -- 2 times -- spelling must be correct).:

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Topic area: Animal Organization and Homeostasis Chapter reference: 31

**200.** The correct sequence of increasing organizational complexity is

- A. cell, tissue, organ, organ system, organism.
- B. cell, organ, organ system, tissue, organism.
- C. organ, tissue, cell, organ system, organism.
- D. organism, tissue, cell, organ system, organ.
- E. tissue, cell, organ system, organism, organ.

Circle the answer letter (and bubble the scantron form IF required), AND write the correct answer on the line:

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Topic area: Animal Organization and Homeostasis Chapter reference: 1, 31