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Chapter 02 - Cells, Tissues, Organs, and Organ Systems of Animals

Chapter 02 Cells, Tissues, Organs, and Organ Systems of Animals

Multiple Choice Questions

 The simplest organization of matter that exhibits the properties of life is the A. cell. B. tissue. C. protein. D. nucleic acid. E. organism.
Blooms Level: 01. Remember
 2. Which of the following is part of plant cells but not animal cells? A. mitochondria B. endoplasmic reticulum C. plasma membrane D. cell wall E. nucleus

Blooms Level: 01. Remember

 3. Which of the following is found in animal cells, but is not usually found in plant cells? A. chromosomes B. Golgi apparatus C. mitochondria D. plasma membrane E. centrioles
Blooms Level: 01. Remember
 4. A cell in which the DNA is not bound by a membrane is said to be A. prokaryotic. B. organoid. C. eukaryotic. D. symbiotic. E. endosymbiotic.
Blooms Level: 01. Remember
 5. A cell with a membrane-bound nucleus, containing DNA in organized structures called chromosomes is said to be A. symbiotic. B. eukaryotic. C. organoid. D. prokaryotic. E. endosymbiotic.
Blooms Level: 01. Remember

- 6. A cell that has membrane-bound units called organelles and a cytoskeleton is said to be A. prokaryotic.
- B. organoid.
- **C.** eukaryotic.
- D. symbiotic.
- E. endosymbiotic.

Blooms Level: 01. Remember

- 7. An organelle that is used for storage and internal transport, serves as a site for attachment of ribosomes, and makes steroids, is the
- A. cytoskeleton.
- B. mitochondrion.
- C. lysosome.
- **D.** endoplasmic reticulum.
- E. centriole.

Blooms Level: 01. Remember Blooms Level: 02. Understand

- 8. The organelle that packages and routes the synthesized products of a eukaryotic cell is the
- A. flagellum.
- B. ribosome.
- C. peroxisome.
- D. nucleolus.
- **E.** Golgi apparatus.

- 9. These structures are an example of a microbody.
- A. ribosome
- B. vault
- C. peroxisome
- D. golgi apparatus
- E. rough endoplasmic reticulum

Blooms Level: 01. Remember

- 10. These structures have recently been shown to act as signal-receiving "antennae" for cells that help them monitor the extracellular environment.
- A. vacuoles
- B. mitochondria
- C. smooth endoplasmic reticulum
- **D.** cilia
- E. rough endoplasmic reticulum

Blooms Level: 01. Remember Blooms Level: 02. Understand

- 11. This organelle functions in cell division and organization of the cytoskeleton.
- A. mitochondrion
- B. centriole
- C. endoplasmic reticulum
- D. chloroplast
- E. lysosome

 12. The semifluid phase of the cytoplasm that contains organelles, vesicles, and inclusions, and serves as a medium for metabolic reactions is the A. nucleoplasm. B. cytoskeleton. C. cytosol. D. peroxisome. E. plasma membrane.
Blooms Level: 01. Remember
13. The of the mitochondria function in increasing the inner membranous surface area. A. centrioles B. matrix C. strobili D. cristae E. thylakoids
Blooms Level: 01. Remember Blooms Level: 02. Understand
 14. The surface to volume ratio of a cell limits A. the type of organelles present. B. the organelle/microtubule volume. C. the number of organelles present. D. the plasma membrane/DNA volume. E. the size a cell may reach.
Blooms Level: 01. Remember Blooms Level: 02. Understand

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15. The surface area of a cell as the volume of a cell A. decreases; increases B. increases; decreases C. decreases; remains the same D. increases; remains the same E. remains the same; increases
Blooms Level: 01. Remember Blooms Level: 02. Understand
 16. The fluid mosaic model of membrane structure was developed by A. Singer and Nicolson. B. Garth and Richardson. C. Schleiden and Schwann. D. Singer and Schleiden. E. Johnson and Garth.
Blooms Level: 01. Remember Blooms Level: 02. Understand
17. Membrane proteins attached to the inner or outer surfaces of plasma membranes are called proteins. A. intrinsic B. hydrophobic C. peripheral D. hydrophilic E. mosaic
Blooms Level: 01. Remember Blooms Level: 02. Understand

18. Membrane proteins that are embedded within the membrane and may function in moving materials across the membrane are called proteins. A. hydrophobic B. extrinsic C. mosaic D. intrinsic E. hydrophilic
Blooms Level: 01. Remember Blooms Level: 02. Understand
 19. The "cell coat," made of surface carbohydrates and portions of proteins, is called the A. tunic. B. cell wall. C. plasma membrane. D. desmosome. E. glycocalyx.
Blooms Level: 01. Remember Blooms Level: 02. Understand
 20. The ability of a membrane to regulate passage of materials into and out of a cell is called A. selective permeability. B. innate regulation. C. active transport. D. membrane uniformity. E. homeostasis.
Blooms Level: 01. Remember Blooms Level: 02. Understand

- 21. Water molecules move through selectively permeable membranes from areas of high concentration of water to areas of lower concentration by
- A. simple diffusion.
- B. endocytosis.
- C. osmosis.
- D. facilitated diffusion.
- E. hydrostatic infusion.

Blooms Level: 01. Remember Blooms Level: 02. Understand

- 22. When molecules bind temporarily with a carrier protein in a cell's membrane and move across the membrane from areas of higher concentration to areas of lower concentration is known as
- A. simple diffusion.
- B. endocytosis.
- C. receptor-mediated osmosis.
- D. active transport.
- E. facilitated diffusion.

Blooms Level: 01. Remember Blooms Level: 02. Understand

- 23. The form of transport involved when blood pressure forces water and small dissolved molecules into kidney tubules is
- A. osmosis.
- B. simple diffusion.
- C. complex diffusion.
- **D.** filtration.
- E. facilitated diffusion.

- 24. Cells placed in this type of solution will shrivel.
- A. isotonic
- B. water
- C. hypertonic
- D. hypotonic
- E. metatonic

Blooms Level: 01. Remember Blooms Level: 02. Understand

- 25. Active transport
- A. can only move molecules from higher to lower concentrations.
- **B.** uses cellular energy to move molecules from lower to higher concentrations.
- C. moves molecules through protein channels by binding them to large lipid molecules.
- D. can only move protein molecules.
- E. can only move carbohydrate molecules.

Blooms Level: 01. Remember Blooms Level: 02. Understand

- 26. This carrier protein transports two molecules or ions in opposite directions.
- A. Uniporter
- B. Symporter
- C. Antiporter
- D. Cotransporter
- E. Proporter

27. Small hydrophilic molecules such as through an aquaporin. A. glycerol B. cholesterol C. glucose D. beta carotene E. vitamin D	are sometimes able to enter a cell
Blooms Level: 01. Remember Blooms Level: 02. Understand	
28. When a plasma membrane encloses small fluid of form of transport known as occurs. A. active diffusion B. receptor-mediated exocytosis C. pinocytosis D. facilitated diffusion E. phagocytosis	droplets and takes them into the cell, a
Blooms Level: 01. Remember Blooms Level: 02. Understand	
29. When cells such as white blood cells of a verteb transport mechanism used is A. receptor-mediated endocytosis. B. active transport. C. passive transport. D. phagocytosis. E. exocytosis.	rate engulf bacteria, the membrane
Blooms Level: 01. Remember Blooms Level: 02. Understand	

30. Two important and well-known active transport mechanisms in nerve cells are the pumps. A. sodium-phosphorus and calcium B. calcium and sulfur C. oxygen and carbon dioxide D. protein and nucleic acid E. calcium and sodium-potassium
Blooms Level: 01. Remember Blooms Level: 02. Understand
31. The protein composing the filaments inside cilia and flagella is A. tubulin. B. actin. C. myosin. D. mucin. E. collagen.
Blooms Level: 01. Remember Blooms Level: 02. Understand
32. Structures associated with the endoplasmic reticulum, necessary for protein synthesis are the A. desmosomes. B. ribosomes. C. peroxisomes. D. chromosomes. E. nucleosomes.
Blooms Level: 01. Remember Blooms Level: 02. Understand

- 33. The organelle that is especially prominent and well-developed in secretory cells (such as glandular epithelial cells) is the
- A. centriole.
- B. phagolysosome.
- C. Golgi apparatus.
- D. mitochondrion.
- E. peroxisome.

Blooms Level: 01. Remember Blooms Level: 02. Understand

- 34. The structures which are elongated appendages used for propelling the cell or for moving material over the cell surface are the
- A. cilia and flagella.
- B. axonemes and myonemes.
- C. basal bodies and centrioles.
- D. microtubules and microfilaments.
- E. axopodia and myopodia.

Blooms Level: 01. Remember Blooms Level: 02. Understand

- 35. A major function of the cell nucleus is
- A. storing proteins.
- **B.** storing genetic information.
- C. packaging materials for secretion.
- D. packaging ATP for cellular use.
- E. serving as a site for protein synthesis.

36. The nuclear envelope is continuous with the	at a number of points.
A. plasma membrane B. Golgi apparatus	
C. endoplasmic reticulum	
D. mitochondria	
E. cytoskeleton	
Blooms Level: 01. Remember	
Blooms Level: 02. Understand	
37. The is an organelle inside the nucleus t	hat serves as the pre-assembly point
for ribosomes.	
A. nucleosome	
B. nucleotide C. nucleoplasm	
D. nucleolus	
E. nucleoside	
Blooms Level: 01. Remember Blooms Level: 02. Understand	
38 are newly discovered organelles believed	to aid in transport of messenger RNA
into the cytoplasm of eukaryotic cells.	
A. vaults B. ribosomes	
C. peroxisomes	
D. nucleoli	
E. centrioles	
Blooms Level: 01. Remember	
Blooms Level: 02. Understand	

39. Which of the following is not an example of an organ system? A. digestive B. lymphatic C. respiratory D. nervous E. blood
Blooms Level: 01. Remember
 40. The type of tissue that covers or lines structures is A. epithelial tissue. B. fibrous tissue. C. adipose tissue. D. contractile tissue. E. skeletal tissue.
Blooms Level: 01. Remember Blooms Level: 02. Understand
 41. Spaces within bone or cartilage which house the living cells are called A. chondrocytes. B. lacunae. C. osteoclasts. D. intercalations. E. cristae.

Blooms Level: 01. Remember

42. Fibrous connective tissue in the form of connects bones to be A. ligaments B. fascia C. tendons D. adipose tissue E. hyaline cartilage	oones.
Blooms Level: 01. Remember	
43. Blood is considered to be a/an tissue. A. epithelial B. liquid C. hyaline D. connective E. adipose	
Blooms Level: 01. Remember Blooms Level: 02. Understand	
 44. Heart, lungs, and liver are examples of functional units called A. tissues. B. organelles. C. systems. D. histological entities. E. organs. 	
Blooms Level: 01. Remember	

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