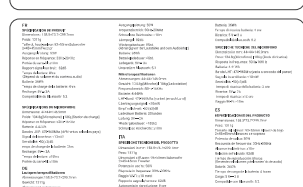
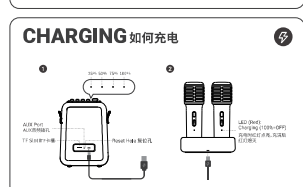
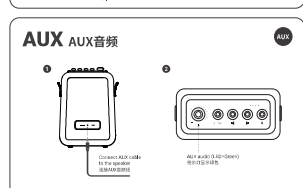
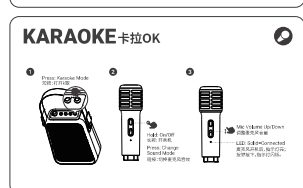
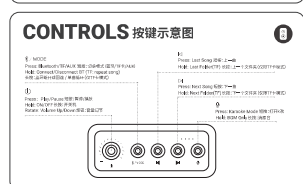
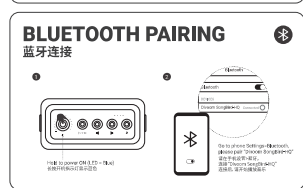


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QUESTIONS

1. Which of the following is not a component of the endoplasmic reticulum?

A. Smooth endoplasmic reticulum
B. Rough endoplasmic reticulum
C. Golgi apparatus
D. Cisterna
E. Tubule

ANSWERS

1. C

EXPLANATION: The endoplasmic reticulum (ER) is a complex network of membranes that is involved in the synthesis and transport of proteins and lipids. It consists of three main components: the rough endoplasmic reticulum (RER), the smooth endoplasmic reticulum (SER), and the Golgi apparatus. The RER is characterized by the presence of ribosomes on its surface, while the SER is smooth and lacks ribosomes. The Golgi apparatus is a series of stacked, flattened sacs called cisternae, which are involved in the processing and transport of proteins. Tubules are also part of the ER network, but they are not a distinct component like the others listed.

KEY POINT: The Golgi apparatus is not a component of the endoplasmic reticulum.

QUESTIONS

2. Which of the following is not a function of the endoplasmic reticulum?

A. Protein synthesis
B. Lipid synthesis
C. Detoxification
D. Storage of calcium ions
E. Secretion of proteins

ANSWERS

2. E

EXPLANATION: The endoplasmic reticulum (ER) has several functions, including protein synthesis, lipid synthesis, detoxification, and storage of calcium ions. The rough endoplasmic reticulum (RER) is primarily involved in protein synthesis, while the smooth endoplasmic reticulum (SER) is involved in lipid synthesis and detoxification. The SER also plays a role in the storage and release of calcium ions. Secretion of proteins is a function of the Golgi apparatus, not the ER.

KEY POINT: Secretion of proteins is not a function of the endoplasmic reticulum.

QUESTIONS

3. Which of the following is not a function of the rough endoplasmic reticulum?

A. Protein synthesis
B. Lipid synthesis
C. Detoxification
D. Storage of calcium ions
E. Secretion of proteins

ANSWERS

3. B, C, D, E

EXPLANATION: The rough endoplasmic reticulum (RER) is primarily involved in protein synthesis. It is characterized by the presence of ribosomes on its surface. Lipid synthesis, detoxification, and storage of calcium ions are functions of the smooth endoplasmic reticulum (SER). Secretion of proteins is a function of the Golgi apparatus.

KEY POINT: Lipid synthesis, detoxification, storage of calcium ions, and secretion of proteins are not functions of the rough endoplasmic reticulum.

QUESTIONS

4. Which of the following is not a function of the smooth endoplasmic reticulum?

A. Lipid synthesis
B. Detoxification
C. Storage of calcium ions
D. Secretion of proteins
E. Protein synthesis

ANSWERS

4. D, E

EXPLANATION: The smooth endoplasmic reticulum (SER) is involved in lipid synthesis, detoxification, and storage of calcium ions. Secretion of proteins is a function of the Golgi apparatus, and protein synthesis is a function of the rough endoplasmic reticulum (RER).

KEY POINT: Secretion of proteins and protein synthesis are not functions of the smooth endoplasmic reticulum.

QUESTIONS

5. Which of the following is not a function of the Golgi apparatus?

A. Protein synthesis
B. Lipid synthesis
C. Detoxification
D. Storage of calcium ions
E. Secretion of proteins

ANSWERS

5. A, B, C, D

EXPLANATION: The Golgi apparatus is primarily involved in the processing and transport of proteins. It is a series of stacked, flattened sacs called cisternae. Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are functions of the endoplasmic reticulum.

KEY POINT: Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are not functions of the Golgi apparatus.

QUESTIONS

6. Which of the following is not a function of the lysosome?

A. Protein synthesis
B. Lipid synthesis
C. Detoxification
D. Storage of calcium ions
E. Secretion of proteins

ANSWERS

6. A, B, C, D

EXPLANATION: The lysosome is an organelle that is involved in the degradation of macromolecules. It contains enzymes that break down proteins, lipids, and carbohydrates. Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are functions of the endoplasmic reticulum.

KEY POINT: Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are not functions of the lysosome.

QUESTIONS

7. Which of the following is not a function of the mitochondrion?

A. Protein synthesis
B. Lipid synthesis
C. Detoxification
D. Storage of calcium ions
E. Secretion of proteins

ANSWERS

7. A, B, C, D

EXPLANATION: The mitochondrion is an organelle that is involved in the production of energy. It contains a double membrane and a matrix. Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are functions of the endoplasmic reticulum.

KEY POINT: Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are not functions of the mitochondrion.

QUESTIONS

8. Which of the following is not a function of the peroxisome?

A. Protein synthesis
B. Lipid synthesis
C. Detoxification
D. Storage of calcium ions
E. Secretion of proteins

ANSWERS

8. A, B, C, D

EXPLANATION: The peroxisome is an organelle that is involved in the degradation of lipids and the detoxification of reactive oxygen species. Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are functions of the endoplasmic reticulum.

KEY POINT: Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are not functions of the peroxisome.

QUESTIONS

9. Which of the following is not a function of the vacuole?

A. Protein synthesis
B. Lipid synthesis
C. Detoxification
D. Storage of calcium ions
E. Secretion of proteins

ANSWERS

9. A, B, C, D

EXPLANATION: The vacuole is an organelle that is involved in the storage of water and the degradation of macromolecules. Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are functions of the endoplasmic reticulum.

KEY POINT: Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are not functions of the vacuole.

QUESTIONS

10. Which of the following is not a function of the nucleus?

A. Protein synthesis
B. Lipid synthesis
C. Detoxification
D. Storage of calcium ions
E. Secretion of proteins

ANSWERS

10. A, B, C, D

EXPLANATION: The nucleus is an organelle that contains the cell's genetic material. It is involved in the regulation of gene expression and the production of ribosomes. Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are functions of the endoplasmic reticulum.

KEY POINT: Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are not functions of the nucleus.

QUESTIONS

11. Which of the following is not a function of the cytoplasm?

A. Protein synthesis
B. Lipid synthesis
C. Detoxification
D. Storage of calcium ions
E. Secretion of proteins

ANSWERS

11. A, B, C, D

EXPLANATION: The cytoplasm is the fluid medium in which the organelles of the cell are suspended. It is involved in the transport of materials and the regulation of cellular processes. Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are functions of the endoplasmic reticulum.

KEY POINT: Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are not functions of the cytoplasm.

QUESTIONS

12. Which of the following is not a function of the cell membrane?

A. Protein synthesis
B. Lipid synthesis
C. Detoxification
D. Storage of calcium ions
E. Secretion of proteins

ANSWERS

12. A, B, C, D

EXPLANATION: The cell membrane is a phospholipid bilayer that separates the cell from its environment. It is involved in the regulation of the cell's internal environment and the transport of materials. Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are functions of the endoplasmic reticulum.

KEY POINT: Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are not functions of the cell membrane.

QUESTIONS

13. Which of the following is not a function of the cell wall?

A. Protein synthesis
B. Lipid synthesis
C. Detoxification
D. Storage of calcium ions
E. Secretion of proteins

ANSWERS

13. A, B, C, D

EXPLANATION: The cell wall is a rigid structure that surrounds the cell. It is involved in the regulation of the cell's shape and the protection of the cell from its environment. Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are functions of the endoplasmic reticulum.

KEY POINT: Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are not functions of the cell wall.

QUESTIONS

14. Which of the following is not a function of the cell nucleus?

A. Protein synthesis
B. Lipid synthesis
C. Detoxification
D. Storage of calcium ions
E. Secretion of proteins

ANSWERS

14. A, B, C, D

EXPLANATION: The cell nucleus is an organelle that contains the cell's genetic material. It is involved in the regulation of gene expression and the production of ribosomes. Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are functions of the endoplasmic reticulum.

KEY POINT: Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are not functions of the cell nucleus.

QUESTIONS

15. Which of the following is not a function of the cell cytoplasm?

A. Protein synthesis
B. Lipid synthesis
C. Detoxification
D. Storage of calcium ions
E. Secretion of proteins

ANSWERS

15. A, B, C, D

EXPLANATION: The cell cytoplasm is the fluid medium in which the organelles of the cell are suspended. It is involved in the transport of materials and the regulation of cellular processes. Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are functions of the endoplasmic reticulum.

KEY POINT: Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are not functions of the cell cytoplasm.

QUESTIONS

16. Which of the following is not a function of the cell membrane?

A. Protein synthesis
B. Lipid synthesis
C. Detoxification
D. Storage of calcium ions
E. Secretion of proteins

ANSWERS

16. A, B, C, D

EXPLANATION: The cell membrane is a phospholipid bilayer that separates the cell from its environment. It is involved in the regulation of the cell's internal environment and the transport of materials. Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are functions of the endoplasmic reticulum.

KEY POINT: Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are not functions of the cell membrane.

QUESTIONS

17. Which of the following is not a function of the cell wall?

A. Protein synthesis
B. Lipid synthesis
C. Detoxification
D. Storage of calcium ions
E. Secretion of proteins

ANSWERS

17. A, B, C, D

EXPLANATION: The cell wall is a rigid structure that surrounds the cell. It is involved in the regulation of the cell's shape and the protection of the cell from its environment. Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are functions of the endoplasmic reticulum.

KEY POINT: Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are not functions of the cell wall.

QUESTIONS

18. Which of the following is not a function of the cell nucleus?

A. Protein synthesis
B. Lipid synthesis
C. Detoxification
D. Storage of calcium ions
E. Secretion of proteins

ANSWERS

18. A, B, C, D

EXPLANATION: The cell nucleus is an organelle that contains the cell's genetic material. It is involved in the regulation of gene expression and the production of ribosomes. Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are functions of the endoplasmic reticulum.

KEY POINT: Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are not functions of the cell nucleus.

QUESTIONS

19. Which of the following is not a function of the cell cytoplasm?

A. Protein synthesis
B. Lipid synthesis
C. Detoxification
D. Storage of calcium ions
E. Secretion of proteins

ANSWERS

19. A, B, C, D

EXPLANATION: The cell cytoplasm is the fluid medium in which the organelles of the cell are suspended. It is involved in the transport of materials and the regulation of cellular processes. Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are functions of the endoplasmic reticulum.

KEY POINT: Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are not functions of the cell cytoplasm.

QUESTIONS

20. Which of the following is not a function of the cell membrane?

A. Protein synthesis
B. Lipid synthesis
C. Detoxification
D. Storage of calcium ions
E. Secretion of proteins

ANSWERS

20. A, B, C, D

EXPLANATION: The cell membrane is a phospholipid bilayer that separates the cell from its environment. It is involved in the regulation of the cell's internal environment and the transport of materials. Protein synthesis, lipid synthesis, detoxification, and storage of calcium ions are functions of the endoplasmic reticulum.

KEY POINT: Protein synthesis

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