

Respiratory System

Choose the correct answer

- 1- All the following belong the conducting portion EXCEPT the
- A) trachea
 - B) bronchi
 - C) bronchioles
 - D) alveoli
 - E) larynx

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- 2- In the olfactory epithelium, the olfactory receptor cells
- A) are unipolar neurons
 - B) send dendritic processes to the olfactory bulb
 - C) cytoplasm contains few mitochondria
 - D) cytoplasm contains numerous rER
 - E) have axonal processes that are confined to the epithelial layer
- 3- In the respiratory epithelium, the argyrophilic cells
- A) are mainly secretory secretion
 - B) serve to sweep mucus toward the peripheral lung
 - C) are the primary source of mucus
 - D) are part of diffuse neuroendocrine system (DNES)
 - E) are also known as brush cells
- 4- Which of the following statements is true of Clara cells?
- A) they are found in the alveoli
 - B) they are the ciliated cells of the bronchiole
 - C) they are the endocrine cells that form neuroepithelial bodies
 - D) they produce a surfactant
 - E) they are involved in gas exchange
- 5- Which of the following statements describes type I pneumocytes
- A) they are the precursors of the type II pneumocytes
 - B) they are the predominant cell in the interalveolar septum (wall)
 - C) they have loose intercellular junctions
 - D) they produce a surfactant
 - E) they provide an extremely thin, gas-permeable barrier
- 6- The alveolar pores of Kohn
- A) serve to drain surfactant
 - B) serve to equalize the interalveolar pressure
 - C) are openings in the pulmonary capillary endothelium
 - D) are openings in the bronchiolar walls
 - E) are caused by bacterial infection
- 7- All the following are part of the blood-air barrier EXCEPT
- A) zona diffusa
 - B) pulmonary surfactant on alveolar cells
 - C) endothelium of fenestrated capillaries
 - D) cytoplasm of capillary endothelium
 - E) cytoplasm of pneumocyte type I

- 8- Lamellar bodies are characteristic of which of the following cells?
- A) pneumocyte type I
 - B) pneumocyte type II
 - C) alveolar macrophage
 - D) clara cell
 - E) alveolar endothelium
- 9- All the following are true for BALT EXCEPT
- A) is bronchus associated lymphatic tissue
 - B) abundant lymphoid tissues of the bronchus
 - C) mainly in nodules containing T, B lymphocytes
 - D) mainly in nodules containing only B lymphocytes
 - E) interact with lung macrophages
- 10- All the following are true for pneumocyte type II EXCEPT
- A) less numerous(5%)
 - B) cubical cells with few microvilli
 - C) tight junctions are present between the cells
 - D) the cytoplasm contains much organoids
 - E) secretes pulmonary surfactant
- 11- In the respiratory epithelium, the argyrophilic cells:
- A) are mainly secreting serous secretion.
 - B) serve to sweep mucus toward the peripheral lung.
 - C) are the primary source of mucus.
 - D) are Part of diffuse neuro endocrine system(DNES).
 - E) they are also known as brush cells.
- 12- Which of the following statements is true for clara cells :
- A) They are found in the wall of alveoli .
 - B) they are ciliated cells of the bronchiole .
 - C) They are the endocrine cells that form the neuroepithelial bodies.
 - D) They produce the surfactant.
 - E) they are involved in gas exchange.
- 13- Which of the following statements describe type I Pneumocytes:
- A) They are the precursors of type II Pneumocytes.
 - B) They are the predominant cells in the inter alveolar septum (Wall).
 - C) They have loose inter cellular junctions.
 - D) They produce asurfactant .
 - E) They provide extremely thin gas permeable barrier .

- 14- The alveolar pores of Kohn:
- Serve to drain surfactant.
 - Serve to equalize the inter alveolar pressure .
 - Are openings in the pulmonary capillary endothelium.
 - Are openings in the bronchial walls .
 - Are caused by bacterial infection.
- 15- Lamellar bodies are characteristic of which of the following cells :
- Pneumocyte type I .
 - Pneumocyte type II .
 - Alveolar macrophages.
 - Clara Cells.
 - Alveolar endothelium.

Write true (T) or false (F)

- Surfactant is produced by Goblet cells. ()
- Basal lamina of pneumocyte I is a part of zona diffusa. ()
- Elastic fiber is functionally important in the inter alveolar wall. ()
- Clara cell has cilia on its apical end. ()
- Respiratory bronchiole has fibro-cartilaginous plates in its wall ()
- Basal lamina of pneumocyte type I is apart of Zona diffusa. ()
- Elastic Fibers are functionally important in the interalveolar wall . ()
- Respiratory bronchiole has fibrocartilagenous plates in its wall . ()
- Neuroepithelial bodies are found at bifurcation of bronchial tree and formed of groups of clara cells . ()
- Number of goblet cells decrease as bronchi become smaller. ()
- No cartilage plates, Goblet cells or lymphatic nodules but glands are present in the terminal bronchiole ()

Complete

- C-shaped pieces of hyaline cartilage are found in
- Clara cells very numerous in
- Olfactory cells are neurons.
- is a vertical partition dividing the nasal cavity into two halves.
- is a flap or spoon like organ, cover for the larynx.

Respiratory System is widely exposed to blood and external environment, So it is provided with epithelial and lymphatic tissue called that protect the inlet of air and food passages.

BALT system is

Alveolar macrophages are, ...

And its function is and

9 - its function is

10- Pneumocyte type I are in Shape with Cytoplasm containing
..... organoids and much

11- Bowman's glands of olfactory mucosa of the nasal cavity are
that secrete.....that act to

Respiratory System

Choose the correct answer

- | | | | | |
|--------|--------|--------|--------|---------|
| 1- (D) | 2- (B) | 3- (D) | 4- (D) | 5- (E) |
| 6- (B) | 7- (C) | 8- (B) | 9- (D) | 10- (C) |

Write true (T) or false (F)

- | | | | | |
|--------|--------|--------|--------|--------|
| 1- (F) | 2- (T) | 3- (T) | 4- (F) | 5- (F) |
|--------|--------|--------|--------|--------|

Complete

- | | | | |
|---------------|-------------------------|---------------------|-----------------|
| 1- trachea | 2- terminal bronchioles | 3- fusiform bipolar | 4- nasal septum |
| 5- epiglottis | | | |

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