

Respiratory System Past papers

- Histology
- **By Mays Qashou**



Past Papers (Theory material)

- Q1) Regarding Type 1 alveolar cells all of the following is true, except?
- a) Simple squamous attenuated cells
- b) Form 97% of alveolar surface
- c) Contain lamellar bodies
- d) Has desmosomes
- e) Has occluding junctions

Ans: C

- **Q2)** One of the following statements is incorrect according to terminal bronchiole:
- a) Complete absence of cartilage
- b) Single layer of ciliated and non-ciliated cuboidal epithelium
- c) in terminal bronchioles we can find aggressions of lymph nodes

Ans: C

- **Q3)** All of the following have pseudostratified columnar epithelial lining, except?
- A) Inner surface of epiglottis
- B) Vestibular fold
- C) terminal bronchiole

Ans: C

- Q4) Cell found in the septum and is called septal cell:
- A. Type 1 pneumocyte
- B. Type 2 pneumocyte
- C. Dust cell

Ans: B

Q5) We can see only 1 or 2 pieces of cartilage in which of the following:

- A. main bronchi
- B. secondary bronchi
- C. bronchopulmonary segments
- D. large bronchioles
- E. small bronchioles

Ans: C

- **Q6)** The respiratory membrane composed of all of the following except:
- A) Type 1 Alveolar cells
- B) Endothelial cells
- C) Fused Basel lamina
- D) Surfactant layer
- E) Dust Cell

Ans: E

- **Q7)** Which of the following is not found in the respiratory membrane?
- A) Surfactant layer
- B) Type I pneumocyte
- C) Type II pneumocyte
- D) Endothelial cell
- E) Fused basal lamina

Ans: C

- **Q8)** Bronchioles, all the following statements are correct except:
- A) In terminal bronchioles the lymphocytes are aggregated as lymphatic nodules
- B) The connective tissue and smooth muscle in terminal bronchioles are greatly reduced

- C) Bronchioles which are less than 1 mm in diameter have neither cartilage nor submucosal glands
- D) In the distal part of respiratory bronchioles, the Clara cells are replaced by simple squamous epithelial cells.

Ans: A

- **Q9)** Dust cells in respiratory system, all the following statements are correct except:
- A) They are transported from the bronchioles into the pharynx via the ciliary action of the respiratory epithelium
- B) They are the most numerous of all cell types, and eliminated from the lungs at a rate of 50 million per day
- C) Often noted in the respiratory membrane
- D) They are derived from monocytes, entering the lungs via the blood stream
- E) They are found also in the connective tissue around the blood vessels and in the pleura

Ans: C

- Q10) Type II alveolar cells are associated with all of the following EXCEPT:
- A) They form 16% of the interalveolar septum
- B) They form 8% of the alveolar wall
- C) They contain in their cytoplasm lamellar bodies
- D) They have the ability to regenerate their own type as well as type I cells
- E) They are connected to type I alveolar cells by occluding junctions and desmosomes

Ans: B

- Q11) Which is not present in the blood-air barrier?
- A) cytoplasm of endothelial cells
- B) cytoplasm of alveolar cells

- C) fused basal lamina
- D) surfactant
- E) thickness of 0.1 1.5 millimeters

Ans: E

- Q12) Cell found in the septum and is called septal cell:
- A) Type 1 pneumocyte.
- B) Type 2 pneumocyte.
- C) Dust cell.
- D) fibroblast.
- E) mast cell.

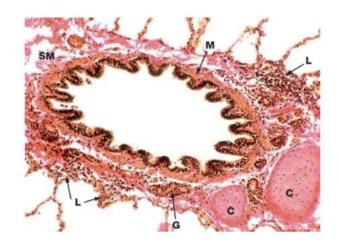
Ans: B

- **Q13)** Functionally the important microscopic anatomy of the lung consists of what is called a respiratory membrane, which consist of?
- A) The epithelium of the alveolus
- B) An alveolar basement membrane
- C) A capillary basement membrane
- D) The Endothelium of the capillary
- E) All of the above

Ans: E

Past Papers (Lab material)

- Q1) Identify the following structure:
- a) Primary bronchus
- b) Secondary bronchus
- c)Tertiary bronchus
- d) Large Terminal bronchiole



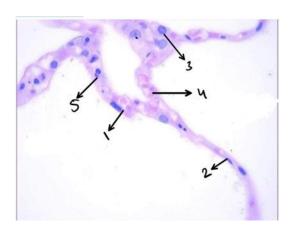
e) Small terminal bronchiole

Ans: E

Q2) Which cells produce the surfactant?

- a) 1
- b) 2
- c) 3
- d) 4
- e) 5

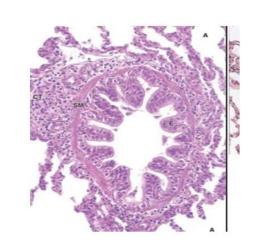
Ans: C



Q3) Identify the following structure:

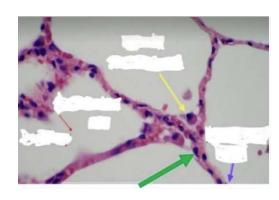
- a) Primary bronchus
- b) Secondary bronchus
- c) Tertiary bronchus
- d) Large Terminal bronchiole
- e) Small terminal bronchiole

Ans: E



Q4) The green arrowed cell represents:

- A) Type 1 pneumocytes
- B) Type 2 pneumocytes
- C) Epithelial cells

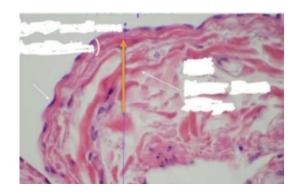


D) None of the above

Ans: A

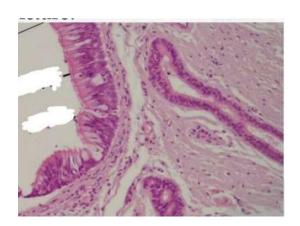
- **Q5)** The orange arrow represents:
- A) Mesothelium
- B) Hyalin cartilage
- C) Elastic Fibers
- D) Endothelium

Ans: C



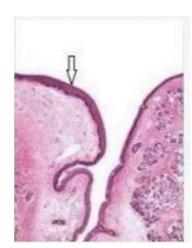
- **Q6)** Which of the following doesn't exist in this picture?
- A) Loose connective tissue
- B) pseudostratified columnar epithelium
- C) Goblet cells
- D) Hyaline Cartilage

Ans: D



- Q7) Identify the type of epithelium indicated with the arrow:
- A) pseudostratified ciliated columnar epithelium with goblet cells
- B) pseudostratified ciliated columnar epithelium
- C) simple ciliated columnar epithelium with goblet cells
- D) Stratified squamous epithelium non-keratinized

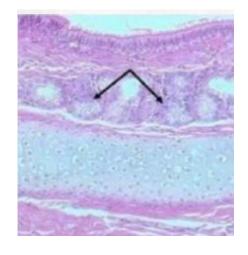
Ans: D



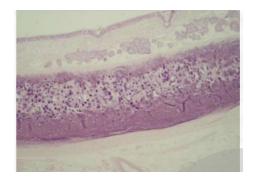
Q8) Identify the pointed structure:

- A) Seromucous glands
- B) Interstitial glans
- C) Hyaline Cartilage
- D) Gastric glans
- E) Blood vessels in mucosa

Ans: A

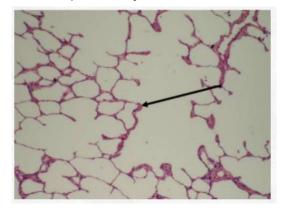


Q9) Identify:



Ans: Trachea

Q10) Identify:



Ans: Smooth muscle

- Q11) The covering epithelium is:
- A) Pseudostratified ciliated columnar epithelium
- B) Stratified squamous epithelium keratinized

Ans: A

