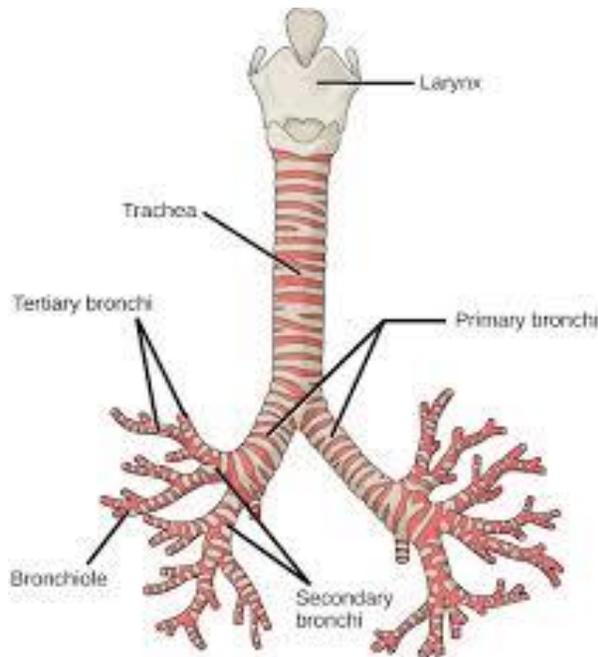


المحاضرة 6 / علم الحيوان المرحلة الأولى / قسم البيولوجي :

Lecture 6 : Respiratory System الجهاز التنفسي

Respiratory System : It is an organs involved in breathing (exchange Oxygen and Carbon dioxide) .



Organs of respiratory System : Larynx , Trachea , Bronchi , Bronchioles , Lungs , Pleura .

Nose : External organ of respiratory system , it allow air to enter the body , filter and warm air .

Larynx : 1 - It is hollow organ tube let air pass from throat to the trachea then to the lungs .

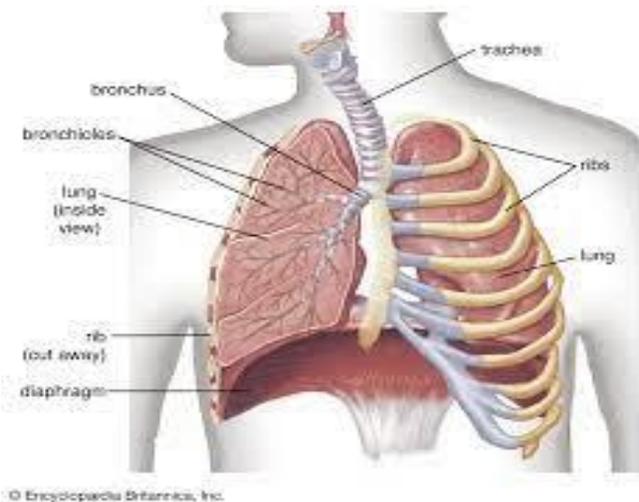
2 - It contains vocal cords which are essential to human speech

3 - Cartilages of Larynx (3 unpaired) and (3 paired) .

4 - Thyroid cartilage (Adam's apple) , in males larger than females

5 – Epiglottis , elastic cartilage , spoon shaped during swallowing food close (lid) of larynx .

6 - Cricoid cartilage , it is ring attached at the top of trachea from backward .



Trachea : 1 - 12 cm length , it is lying anterior to the esophagus .

2 - It is supported by 12-20 C - shaped cartilages . these cartilages prevent trachea from collapsing during inhalation .

3 – Mucous membrane of trachea consist pseudostratified columnar ciliated epithelium with numerous goblet cells .

Bronchi : 1 - they are two large tubes , left and right , each bronchi divided to several bronchi .

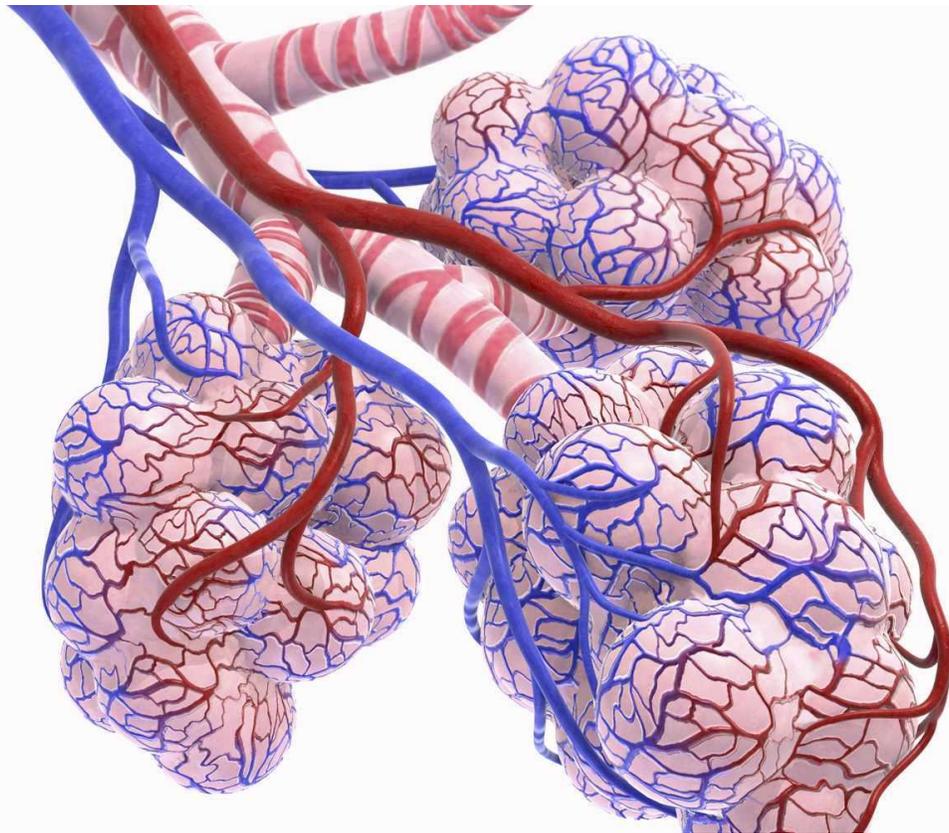
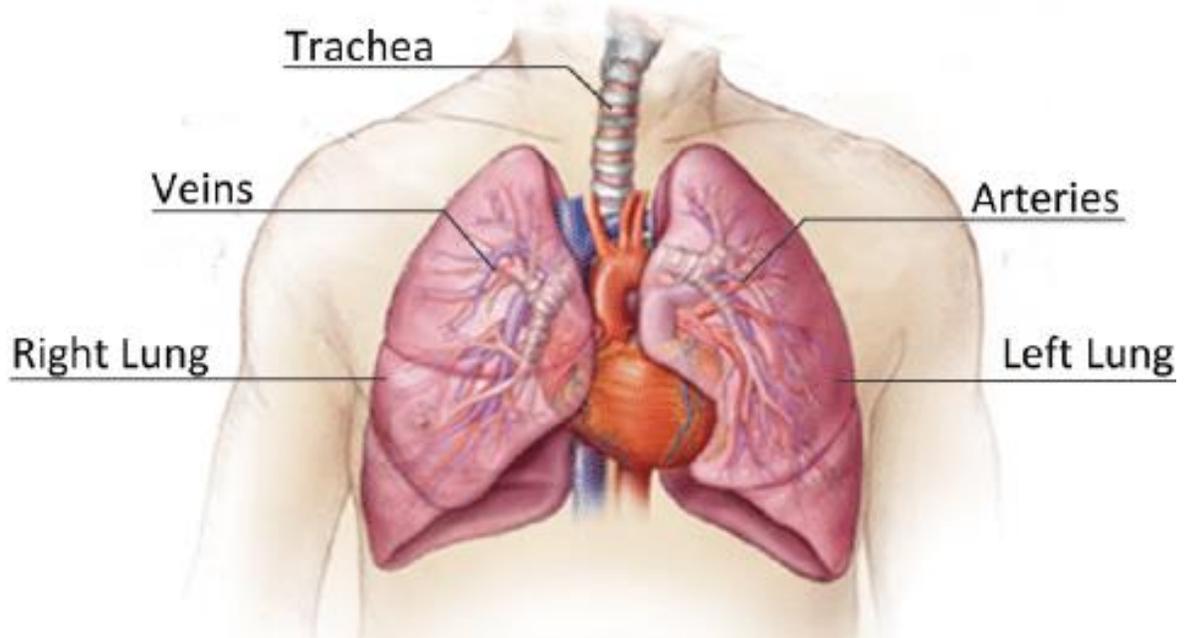
- 2 - Bronchioles are the lower portion of bronchi .
- 3 - Bronchi are lined by cilia (hair like structures) .
- 4 - Cartilage of bronchi are ring form not C - shaped) .
- 5 - Bronchioles , carry air to the small sacs called alveoli .

Alveoli : 1 - Sacs at the end of bronchioles in the lungs .

2 - Alveoli sites of blood exchange Oxygen with Carbon dioxide .

Lungs : they are a center of respiratory system , Lung supply oxygen and remove carbon dioxide .

- 1 - Right lung divided into three lobes while left lung only two lobes .
- 2 – Right lung larger than left lung .
- 3 - Both of them covered by a membrane called pleura .
- 4 – The cardia notch where heart fits present in the left lung .



Pleura : Is a membrane lined thoracic cavity and covered organs in the chest .

Quiz : 1 – Right lung have lobes ?

A - 2 B - 3 C - 4 D - one E - 5

2 - Left lung have lobes ?

A - 2 B - 3 C - 4 D - 5 E – nothing

3 - C shaped cartilages are present in ?

A - Bronchioles B – Bronchi C – Trachea D - Lung E - Larynx

4 - Larynx have cartilages ?

A - 6 B – 3 C - 5 D - 9 E – 8

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