**STUDY GUIDE- UNIT 6 :**

**Respiratory System**

Describe the track of air from the nose to the site of gas exchange.

What happens to cartilage and smooth muscle as you move down the respiratory tract?

Name 4 functions of the nose.

What are the three regions of the pharynx / which have food and air both?

What does the larynx do/ what covers it while swallowing food?

Describe how smoking impacts the lungs.

What are the similarities and differences between the left and right lung?

Lung anatomy- lobes / apex/ base/ **hilum**/ cardiac notch

What are the benefits of surfactant in the lungs?

What are the 2 layers of the pleura. What is it for? Where find each?

What is Boyle’s law and its importance?

What happens during inspiration? (Include muscles used and the change in volume and pressure)

What happens during expiration? (Include muscles used and the change in volume and pressure)

What is the difference between normal and deep expiration?

What is surfactant and where is it produced?

**Where find each: Simple squamous / stratified squamous/ pseudostratified squamous**

Be able to describe what each lung volume means given the chart: vital capacity/ total lung capacity/ residual volume/ tidal volume/ expiratory reserve volume/ inspiratory reserve volume

Define: Internal respiration/ external respiration / respiratory zone / conducting zone/ cricoid cartilage / bronchiole

**Be able to describe all of the diseases we spoke about in some detail in class including:**

Pulmonary embolism / emphysema / lung cancer / bronchitis / asthma / pleurisy / tuberculosis / cystic fibrosis / atelectasis