

Assignment for 1st year MBBS

23.03.2020 to 28.03.2020

Topic: Respiration Physiology:

Chapter: 38-Guyton's Physiology

1. Define alveolar pressure, pleural pressure & Trans pulmonary pressure.
2. Name the muscles of inspiration.
3. Describe the role of diaphragm in inspiration.
4. Describe the mechanism of inspiration.
5. What is surfactant & its role with respect to law of Laplace.
6. Define & describe compliance of lungs.
7. Describe respiratory distress syndrome.
8. What are the non respiratory functions of the lungs.
9. Define four volumes & four capacities
10. Draw & label normal spirogram showing all the normal volume & capacities.



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Topic: Respiratory System:

1. Pulmonary circulation, Pulmonary edema & pleural fluid.
2. Chapter No.38, Guyton's Physiology 12th edition.
3. Assignments:
 - i) Blood supply to the lungs.
 - ii) Differences between pulmonary & bronchial blood supply.
 - iii) Effect of Hydrostatic pressure gradients in the lungs on regional pulmonary blood flow.
 - iv) Effect of increase cardiac output during heavy exercise.
 - v) Pulmonary capillary dynamics
 - vi) Capillary fluid exchange in lungs and interstitial fluid.
 - vii) Pleural effusion. Its etiology & management.
 - ix) Fig : 38.4
Fig : 38.6



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