

Respiratory System past papers

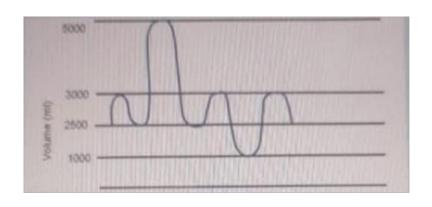


By: Farah & Mais



1. From the shown figure, how much is the vital capacity?

- a. 4 Liter
- b. 2 Liter
- c. 3 Liter
- d. 5 Liter
- e. I Liter



Answer: a

- 2. Regarding bronchial asthma, all the following statements are true EXCEPT
- a. During the attack, FEV1.0/FVC is &It; 80%
- b. Bronchodilators can be given to asthmatic patients
- c. Different stimuli can trigger the attack.
- d. Cough suppressants are highly indicated during the attack
- e. Patients might be allergic to pollens

Answer: a

- 3. in advanced COPD, choose the correct statements
- a. Lung compliance is low
- b. Arterial PO2 is above normal levels
- c. Inspiration becomes passive
- d. FEVI. is less than predicted
- e. Expiration becomes passive

Answer: D

4. Place the following steps for normal inhalation in order.1) decrease in intrapleural pressure to 754 mmHg (from -4 mmHg to - 6 mmHg).2) flow of air from higher to lower pressure (inhalation) 3) lung size increases4) decrease in intra-alveolar pressure to 759 mmHg (-1 mmHg).5) contraction of the diaphragm ‡ external intercostals muscles.

- a. 5, 1, 3, 4, 2
- b. 5, 2, 3, 4, 1
- c. 1, 3, 4, 5, 2
- d. 1, 2, 3, 4, 5
- e. 5, 4, 3, 2, 1

Answer: a

5.In a normal person breathing room air at sea level during mild exercise. Which of the following statements are true?

- a. P50 decreases
- b. 02 extraction ratio in the extraction muscles increases above 25%
- c. Hb02 dissociation curve is shifted to the left
- d. ABGs becomes grossly abnormal
- e. This person is hyperventilating during training.

Answer: b? according to gpt

6.At Mount Everest:

- a. During inspiration, alveolar pressure equals atmospheric pressure
- b. P02 remains lower than PN2 in the outside air
- c. % of 02 becomes less 21%.
- d. Atmospheric pressure is the same as the sea level value.
- e. Nobody can climb at to this level even with help of oxygen tank

Answer: b

- 7. Regarding positive pressure breathing, all the following are true EXCEPT:
- a. This pattern of breathing is seen only during exercise
- b. We make outside pressure less than inside (alveolar) pressure
- c. It is used when diaphragm is paralyzed.
- d. It is artificial pattern of breathing (not physiological), performed using ventilator.
- e. It is needed in case of ARDS

Answer: b

- 8. Regarding lung diseases, one of the following is true
- a. Pulmonary vascular lung
 diseases are least common in clinical Practice
 b. in pulmonary fibrosis, FEV1.0/FVC is always below normal
- c. Obstructive lung diseases are extremely rare in clinical practice
- d. Increase in the diameter of the airways by 10% results in a decrease in dirway resistance by 10% too.
- e. Pulmonary fibrosis is an example of increase airway resistance.

Answer:A

- 9. Under normal conditions, and regarding blood gases, choose the CORRECT statement:
- a. Arterial PCO2 is more than arterial PO2.
- b. CO2 diffuses easier than 02
- c. Most of the CO2 transported in the blood is in its dissolved form
- d. Most of the 02 in blood is in its dissolved form
- e. 02 is diffusion-limited

Answer: b

10.regarding surfactant, one of the ollowing statements is FALSE:

- a. Is produced by the mother and given to embryo's (through the placenta).
- b. Is decreased in premature infants.
- c. It decreases surface tension forces of the lung
- d. It decreases collapsing forces of the lung.
- e. Can be given inhaler for premature babies

Answer: a