



Registry Examination for Advanced Pulmonary Function Technologists

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### **QUESTION 1**

Airways resistance and specific conductance tests are requested for a 7-year-old child with asthma. Which of the following techniques is preferred?

- A. Panting with body plethysmography
- B. Quiet breathing with body plethysmography
- C. Interrupter
- D. Oscillation

Correct Answer: A

### **QUESTION 2**

A pulmonary function technologist is performing quality control on a nebulizer used in the 5-breath dosimeter bronchial challenge. The target output of the device is 0.09 mL, plus or minus 10%. After 10 actuations, the nebulizer output was 75 ? with a 2.0 mL initial saline dose in the nebulizer. The technologist should

- A. Open the vent before starting the bronchial challenge.
- B. Add an exhalation filter and proceed with testing patients.
- C. Clean and reevaluate this nebulizer.
- D. Accept the results and begin using the device.

Correct Answer: D

#### **QUESTION 3**

A helium dilution test has just been performed on a patient. The following results are obtained:

FRC 5.0 L VC 4.0 L ERV 1.5 L

TLC was calculated to be 6.0 L by plethysmography. From this information, a pulmonary function technologist should conclude that the patient

A. Had inadequate intrapulmonary mixing of inspired gas, resulting in an erroneous FRC.

- B. Did not perform the slow vital capacity properly, resulting in too low an FRC by helium dilution.
- C. Was turned into the helium dilution circuit at a lung volume considerably above FRC.
- D. Did not remain in the helium dilution breathing circuit long enough for equilibration.

Correct Answer: A



## **QUESTION 4**

A 35-year-old healthy male is performing a maximal stress test as part of an annual physical. The following data are observed:

	Baseline	5 Minutes
Work	rest	100 watts
HR	81	141
BP (mm Hg)	120/75	150/80
SpO <sub>2</sub>	96	81
Borg Scale	0	2

The patient denies any symptoms. Which of the following should a pulmonary function technologist do first?

- A. Obtain an arterial blood gas while continuing exercise
- B. Move the pulse oximeter sensor to another site
- C. Administer oxygen at 3-4 L/min by nasal cannula
- D. Terminate the test and stabilize the patient.

#### Correct Answer: D

## **QUESTION 5**

In which of the following patients would an end-tidal CO2 most likely produce values that are inconsistent with PaCO2?

- A. 50 year old with mild scleroderma
- B. 42 year old with moderate COPD
- C. 20 year old who smokes cigarettes
- D. 12 year old with kyphoscoliosis

Correct Answer: B

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