

RPFT^{Q&As}

Registry Examination for Advanced Pulmonary Function Technologists

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QUESTION 1

During the calibration and set-up of the metabolic stress testing system for a patient breathing supplemental oxygen, which of the following gas concentrations will ensure accurate calibration of the system?

	<u>5% CO₂</u>	<u>10% CO₂</u>	<u>15% O₂</u>	<u>26% O₂</u>
A.	yes	no	yes	yes
B.	no	yes	no	no
C.	no	yes	yes	no
D.	yes	no	no	yes

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

QUESTION 2

A patient will undergo bronchial provocation testing with methacholine chloride (Provocholine). Baseline spirometry reveals the FVC is 4.00 L and FEV1 is 3.00 L. The provocative dose 20% (PD20) can be calculated when which of the following measurements occur?

A. The FVC falls below 3.20 L, or the FEV1 falls below 2.40 L.

B. The FEV, falls below 2.40 L, regardless of change in FVC.

C. The FVC falls below 3.20 L and the FEV1 falls below 2.40 L.

D. The ratio FEV1/FVC falls below 0.8.

Correct Answer: B

QUESTION 3

Which of the following is a suitable policy for following Standard Precautions in a pulmonary function laboratory?

A. Eye protection is required when obtaining ABGs from patients with hepatitis.

B. Reusable mouthpieces should be disposed when a patient has a history of tuberculosis.

C. Gloves are optional when obtaining arterial blood samples using a kit

D. Reusable mouthpieces should be disinfected between each patient.

Correct Answer: B

QUESTION 4

The following biologic control data ranges were established:

	<u>D_{LCO}</u>	<u>IVC</u>
Mean	34.30	4.2
SD	1.28	0.2

The following additional data were obtained when assessing the equipment:

<u>Date</u>	<u>D_{LCO}</u>	<u>IVC</u>
7/2	38.50	5.30
7/2	39.50	5.44

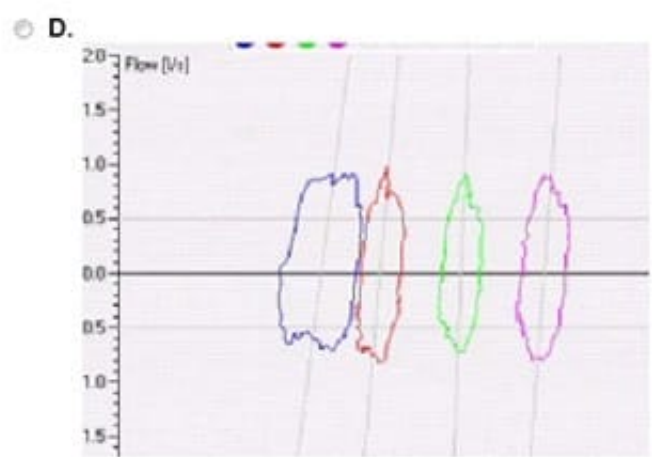
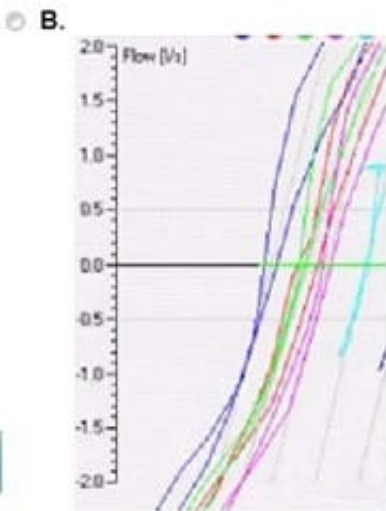
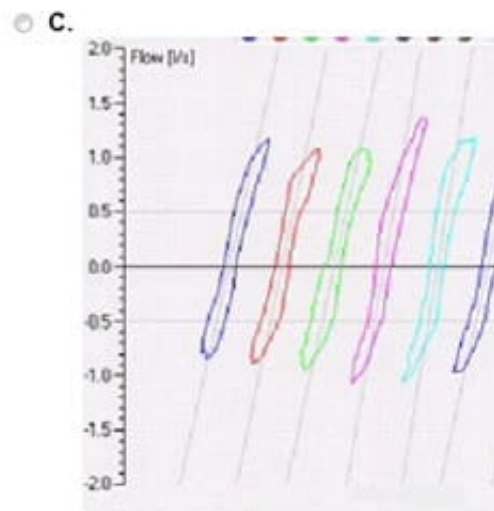
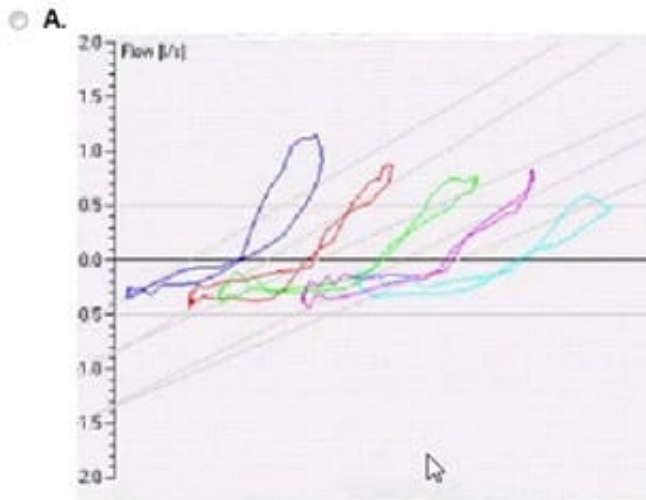
Which of the following should a pulmonary function technologist do?

- A. Change the CO₂ and H₂O absorbers.
- B. Continue testing patients.
- C. Change the DLco CO analyzer.
- D. Check the flow sensor.

Correct Answer: D

QUESTION 5

Which of the following tracings represents an airways resistance maneuver performed with a slow breathing frequency?



A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

QUESTION 6

During daily quality control procedures on an infrared CO₂ analyzer, a pulmonary function technologist is unable to adjust the gain to the calibration gas concentration. Which of the following is the most likely explanation?

A. Water droplets in the sample cell

B. Saturation of the soda lime

C. Presence of high levels of oxygen

D. Increased gas sampling rate

Correct Answer: A

QUESTION 7

A pulmonary function technologist is reviewing an asthma action plan. The patient takes a low-dose inhaled corticosteroid and a long-acting beta2-agonist twice daily. The patient's personal best peak flow is 600 L/min. Which of the following instructions should be given to the patient when the peak flow drops to 500 L/min?

- A. Add montelukast (Singular).
- B. Continue the current regimen.
- C. Go to the emergency department.
- D. Double the steroid dose.

Correct Answer: A

QUESTION 8

Which of the following is the most reliable method to estimate the effectiveness of standard procedures to minimize the risk of cross-contamination during spirometry testing in a pulmonary function laboratory?

- A. Count the number of disposable mouthpieces used for 1 week.
- B. Observe the handwashing behavior of each technologist.
- C. Ask patients tested about laboratory hygiene.
- D. Ask technologists if they wash their hands before each test

Correct Answer: B

QUESTION 9

During an exercise study, a pulmonary function technologist notices the systolic blood pressure increased to 270 mm Hg using an automated cuff. Which of the following should the technologist do?

- A. Terminate the test and administer oxygen by nasal cannula.
- B. Continue the test and recheck blood pressure using manual cuff method.
- C. Terminate the test at this time and recheck blood pressure.
- D. Continue the test if within 5 minutes of completion.

Correct Answer: A

QUESTION 10

In a patient with neuromuscular disease, which of the following is the best way to detect airway obstruction?

- A. SGaw
- B. MIP
- C. PEF
- D. MVV

Correct Answer: D

QUESTION 11

Which of the following is a valid reason for using biologic controls for DLCo?

- A. Establishing precision of the procedure
- B. Identifying the source of gas analyzer error
- C. Assessing accuracy of the volume measuring device
- D. Determining the lower limit of normal values

Correct Answer: C

QUESTION 12

Which of the following is a common reason for an unstable zero reading from an infrared analyzer?

- A. Debris in the sampling system
- B. Inaccurate calibration gases
- C. Exhausted DRIERITE
- D. Excess room humidity

Correct Answer: A

QUESTION 13

A 54-year-old male who smokes presents to the pulmonary laboratory for chronic cough and dyspnea on exertion. PFT and blood gas results show the following:

FVC	3.0 L
FEV ₁	1.56 L
FEV ₁ /FVC	52%

pH	7.39
PaCO ₂	45 torr
PaO ₂	68 torr
HCO ₃ ⁻	28 mEq/L
SaO ₂	86%
COHb	8%

Which of the following should the pulmonary function technologist recommend?

- A. DLco measurement
- B. Oxygen therapy with exercise
- C. Trial of varenicline (Chantix)
- D. Lung volume measurement

Correct Answer: A

QUESTION 14

A biologic control subject has a FRCpleth of 4.0 ± 0.3 L at panting frequencies between 60 and 70/min.

During a QC run, the subject pants at 55/min and a FRCpleth of 3.90 L is recorded.

Which of the following is the most appropriate action to take?

- A. Recalibrate the mouth pressure transducer and repeat the test.
- B. Repeat the test, coaching the subject to pant more slowly.
- C. Continue using the system because it is within control limits.
- D. Take the plethysmograph out of service pending corrective maintenance.

Correct Answer: C

QUESTION 15

During a linearity check of a flow sensor in a plethysmograph with a 3-liter calibration syringe, a pulmonary function technologist observes the following:

	<u>Low</u>	<u>Medium</u>	<u>High</u>
Volume (L)	2.99	3.01	3.06
Flow (L/sec)	1.60	4.50	8.10

Which of the following should the technologist do?

- A. Perform an additional flow check at 10 L/sec.
- B. Look for an obstruction in the flow sensor.
- C. Record these results and begin testing.
- D. Recalibrate and repeat the linearity check.

Correct Answer: B

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