



RPFT^{Q&As}

Registry Examination for Advanced Pulmonary Function Technologists

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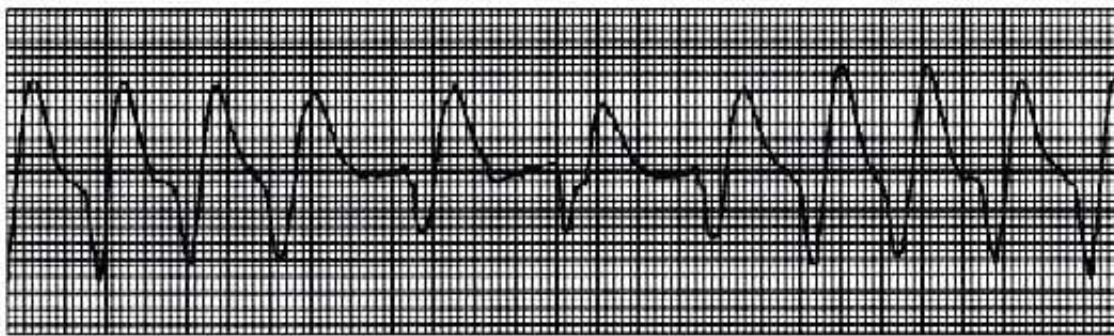
QUESTION 1

A patient's vital capacity is slightly reduced, the FEV₁/FVC is normal, and the uncorrected DL_{CO} is increased. Which of the following is the most likely diagnosis?

- A. diffuse pulmonary fibrosis
- B. diaphragmatic hemiparesis
- C. kyphoscoliosis
- D. polycythemia vera

Correct Answer: D

QUESTION 2



25 mm/sec

The ECG above is recorded during the recovery phase immediately following termination of an ergo meter exercise study. A pulmonary function technologist should

- A. Initiate chest compressions
- B. Have the patient lie down
- C. Check the electrode connections
- D. Continue the cool-down phase

Correct Answer: A

QUESTION 3

A pulmonary function technologist is asked to select gas concentrations to simulate pediatric patients' exhaled concentrations during a DL_{CO} simulation. Which of the following FE_{CO} concentrations should the technologist select?

- A. 0.200
- B. 0.300



C. 0.400

D. 0.100

Correct Answer: B

QUESTION 4

During exercise, a subject's oxygen consumption increases out of proportion to his cardiac output. This is due to an increase in:

A. Anaerobic metabolism

B. Alveolar ventilation

C. Coronary blood flow

D. Oxygen extraction

Correct Answer: C

QUESTION 5

Which of the following thresholds for a clinically significant change in lung function from the beginning to the end of a methacholine challenge test is significant?

A. An increase of more than 20% in airway resistance

B. A decline of more than 30% in FEF_{25-75%}

C. A decline of more than 20% in FEV₁

D. A decline of more than 20% in inspiratory capacity

Correct Answer: C

QUESTION 6

A physician orders smoking cessation counseling for a 60-year-old male with a new diagnosis of CHF and COPD. The patient has failed several attempts to quit smoking using nicotine gum. Which of the following should a pulmonary function technologist recommend?

A. Switch to a nicotine patch.

B. Use alternative medicine such as acupuncture.

C. Add a trial of bupropion (Zyban).

D. Increase the dosage of the nicotine replacement.

Correct Answer: D



QUESTION 7

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 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

When performing quality control in a body plethysmograph using a 5-L isothermal bottle, the VTG at shutter closure are as follows:



Trial
 V_{TG} (L)

$\frac{1}{4.91}$

$\frac{2}{5.09}$

$\frac{3}{5.04}$

$\frac{4}{4.86}$

$\frac{5}{5.01}$

A pulmonary function technologist should

- A. Service the mouth pressure transducer.
- B. Recalibrate the box pressure transducer.
- C. Check biological control before beginning testing.
- D. Proceed with patient testing.

Correct Answer: A

QUESTION 10

Results of two blood gas samples drawn from the same patient, 30 minutes apart, are shown below:

	<u>10:00</u>	<u>10:30</u>
pH	7.44	7.44
PCO ₂	40 torr	20 torr
PO ₂	60 torr	65 torr
HCO ₃ ⁻	26 mEq/L	13 mEq/L

Which of the following is the most likely explanation for these differences?

- A. The patient's minute ventilation has increased.
- B. The patient has developed a pneumothorax.
- C. The 10:30 blood sample has been contaminated with air.
- D. The 10:30 blood sample contains an excess of heparin solution.

Correct Answer: A

QUESTION 11

At maximum exercise, a 24-year-old patient's heart rate is 150/min with a VO₂ of 750 mL/min. The calculated O₂ pulse is most consistent with which of the following?

- A. cystic fibrosis
- B. cardiomyopathy
- C. achievement of anaerobic threshold
- D. deconditioning



Correct Answer: A

QUESTION 12

A 40-year-old woman with a recent onset of asthma is receiving education regarding her newly prescribed medications. Which of the following will most likely cause her to experience hoarseness?

- A. Anti-IgE immunizations
- B. Inhaled corticosteroid
- C. Short acting beta2-agonist
- D. Leukotriene antagonist

Correct Answer: D

QUESTION 13

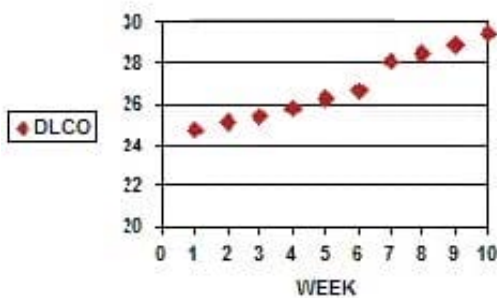
A treadmill is set so that the belt rises 1 ft in a horizontal distance of 10 ft at 3 mph. The percent grade indicator should read

- A. 30.0%
- B. 1.0%
- C. 3.0%
- D. 10.0%

Correct Answer: C

QUESTION 14

The following biologic control measurements are obtained:



Which of the following patterns appears in this plot?

- A. Shift



B. In control

C. Drift

D. Noise

Correct Answer: D

QUESTION 15

A pulmonary function technologist can calculate which of the following if values for pH, PaO₂, SaO₂, SvO₂, PvO₂, VO₂, and Hb are obtained?

A. Cardiac output

B. RER

C. VD/VT

D. Stroke volume

Correct Answer: A

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