RPFT Q&As

Registry Examination for Advanced Pulmonary Function Technologists

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QUESTION 1

During an exercise study, the RER will equal the RQ only when the patient is at

A. Steady state

B. Peak exercise

C. The anaerobic threshold

D. Rest

Correct Answer: A

QUESTION 2

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?

	5% CO_2	10% CO_2	15% O_2	26% O_2
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 3

An isothermal lung analog has the following specifications:

5-L glass bottle 2000 g of steel wool Density of steel wool 5 g/cm3 Volume of connectors and bulb 100 mi-Repeated FRC measurements in the plethysmograph result in a volume of 5.5 L.

Which of the following should a pulmonary function technologist do?

A. Remove 500 g of steel wool from the lung analog

B. Take the plethysmograph out of service

C. Recalculate the BTPS correction

D. Begin a biologic control program

Correct Answer: D

QUESTION 4

The following data are obtained after an exercise (stress) test for exercise-induced asthma:

Predicted FEV_1	5.2 L
Baseline FEV_1	4.2 L
Post-exercise FEV_1	3.5 L

Based on these data, the post-exercise FEVi represents a decrease of approximately

A. 67%

B. 20%

C. 17%

D. 13%

Correct Answer: D

QUESTION 5

A biologic control subject has a FRCpleth of 4.0 ?.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