RPFT Q&As

Registry Examination for Advanced Pulmonary Function Technologists

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QUESTION 1

The following data are observed during an exercise test:

Resting	
Blood pressure	145/90 mm Hg
ECG	normal sinus rhythm
Symptoms	none

Stage II	
Blood pressure	135/90 mm Hg
ECG	2nd degree AV block type I
Symptoms	none

Which of the following should a pulmonary function technologist do?

A. Continue the test until the patient is symptomatic.

B. Discontinue the test and ensure patient safety.

C. Discontinue the test after the next stage.

D. Continue the test until the patient reaches maximal tolerance.

Correct Answer: B

QUESTION 2

When performing exercise testing on a biologic control, the measurements obtained should be compared with

A. The patient population that will be tested.

B. Predicted values used for the biologic control\\'s height and weight

C. Previous tests performed on the biologic control.

D. At least two other biologic controls being tested.

Correct Answer: C

QUESTION 3

Which of the following is an appropriate reason to perform a multiple-breath nitrogen washout test?

A. Measure anatomical dead space.

B. Differentiate obstruction from restriction.

C. Detect early small airway disease.

D. Measure oxygen consumption.

Correct Answer: C

QUESTION 4

Which of the following is the most reliable indicator that a patient has achieved his maximum exercise capacity during a progressive exercise (stress) test?

A. Respiratory exchange ratio greater than 0.8

B. Heart rate of 210/min

C. VO2 remains stable with increasing workload

D. Minute ventilation greater than 170 L/min

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 FEF25-75%

C. A decline of more than 20% in FEV1

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

Correct Answer: C

QUESTION 6

During calibration of a spirometer, injection of air with a 3-liter syringe results in the following:

Trial 1	2.80 L
Trial 2	2.83 L
Trial 3	2.80 L

Using another 3-liter syringe, air is again injected with the following results:

Trial 1	2.92 L
Trial 2	2.95 L
Trial 3	2.97 L

A pulmonary function technologist should conclude that the

A. Calibration should be repeated

B. Spirometer is alinear

C. First syringe is not set properly

D. Spirometer has intermittent failure

Correct Answer: C

QUESTION 7

Biological control data are obtained for lung volumes by plethysmography. The following results are obtained:

	Expected Range	Measured
FRC	2.9 - 3.1	3.00
TLC	4.9 - 5.1	4.80

A pulmonary function technologist should repeat the test instructing the individual to

A. Inhale to TV

B. Pant at 40 to 50 Hz

C. Pant at 90 to 100 Hz

D. Inhale to TLC

Correct Answer: D

QUESTION 8

The desiccant column on an infrared CO2 analyzer is pink. The readings obtained from this analyzer would result in

A. A decreased CO2

B. An increased CO2

C. An unstable reading

D. No effect on CO2

Correct Answer: B

QUESTION 9

A pulmonary function technologist is performing an exercise study on a patient with sarcoidosis. Which of the following end-tidal CO2 values should the technologist expect at rest, if the test is performed appropriately?

A. 7-10%

B. 0-1.5%

C. 4-5%

D. 2-3%

Correct Answer: C

QUESTION 10

During a cardiopulmonary stress test using breath-by-breath gas analysis, a pulmonary function technologist notices that the VO2 suddenly decreases. Which of the following may explain this change?

1.

The patient has achieved anaerobic threshold.

2.

The measurement of the expired gas volumes is inaccurate.

3.

O2 analyzer "phase delay" has increased.

4.

There is a leak in the tubing or mouthpiece.

A. 1, 3, and 4 only

B. 1, 2, and 3 only

C. 1, 2, and 4 only

D. 2, 3, and 4 only

Correct Answer: A

QUESTION 11

While performing a quality control test on an open circuit nitrogen system, the volume of a 3-liter syringe is measured as 3.9 L. Which of the following is the most probable explanation?

A. There was an air leak in the system.

B. The initial O2 concentration in the syringe was greater than 0.21.

C. The volume was not corrected from ATPS to BTPS.

D. The nitrogen analyzer gain was set too low.

Correct Answer: A

QUESTION 12

During an exercise (stress) test, the minute ventilation to carbon dioxide production (Ve /VCO2) ratio is

100. This measurement indicates

A. Severe pulmonary hypertension

B. A normal response

C. Equipment malfunction

D. Increased work of breathing

Correct Answer: C

QUESTION 13

At maximum exercise, a 24-year-old patient\\'s heart rate is 150/min with a VO2 of 750 mUmin. The calculated 02 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 14

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

QUESTION 15

Which of the following may cause a reduction in end-tidal CO2?

A. Increased VD/VT ratio

B. Anxiety-induced hyperventilation

C. Exercise below the anaerobic threshold

D. Eating a high-protein diet

Correct Answer: B