

NBRC - RPFT

Registry Examination for Advanced Pulmonary Function Technologists

QUESTION: 1

Using a peak flowmeter, a pulmonary function technologist obtains the following:

<u>Trial</u>	<u>Flow (L/min)</u>
1	850
2	650
3	750

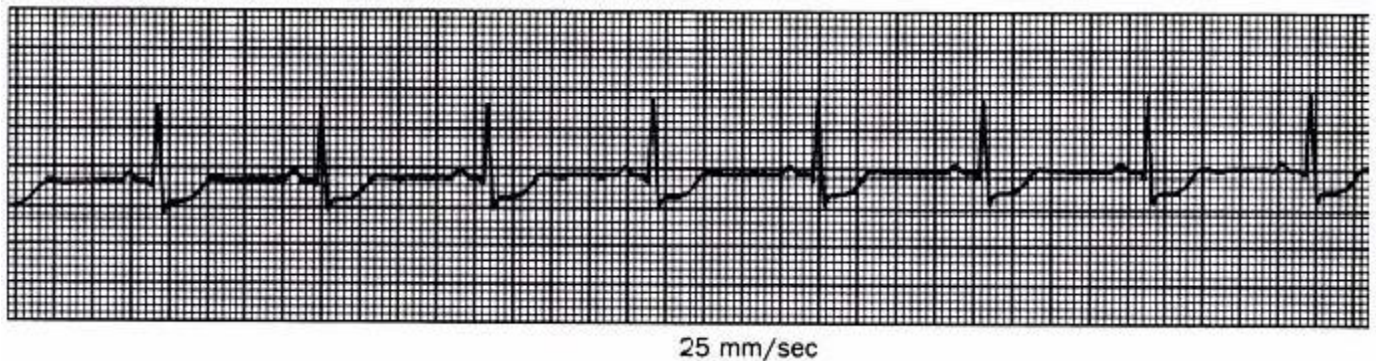
The technologist should

- A. Conclude that bronchodilatation has occurred.
- B. Report the average of the two best efforts.
- C. Perform at least one more peak flow trial.
- D. Report the patient's peak flow as 750 L/min.

Answer(s): C

QUESTION: 2

A 54-year-old male with a normal ECG at rest develops dyspnea during an exercise (stress) test, and the following ECG pattern is noted at 25 watts:



25 mm/sec A pulmonary function technologist should

- A. Continue the test until the subject reaches target heart rate.
- B. Stop the test immediately; there is evidence of heart block.
- C. Continue the test and obtain an arterial blood sample.
- D. Stop the test immediately; there is evidence of ischemia.

Answer(s): B

QUESTION: 3

A polarographic oxygen analyzer used to measure expired gas in a metabolic system should always be calibrated with

- A. Gas concentrations higher and lower than the expected measurement
- B. Oxygen mixtures containing 4% and 8% carbon dioxide
- C. 100% oxygen and 100% nitrogen, fully saturated
- D. Air and fully saturated 100% oxygen.

Answer(s): A

QUESTION: 4

Successive peak flow measurements made with a peak flowmeter on a subject previously diagnosed as having asthma yield the following results:

Trial 1	6.27 L/sec
Trial 2	5.07 L/sec
Trial 3	4.38 L/sec

Which of the following is the best explanation for these?

- A. Condensation of moisture in the peak flowmeter
- B. Normal response
- C. Improper calibration of the peak flowmeter
- D. Increasing airways resistance in the subject

Answer(s): D

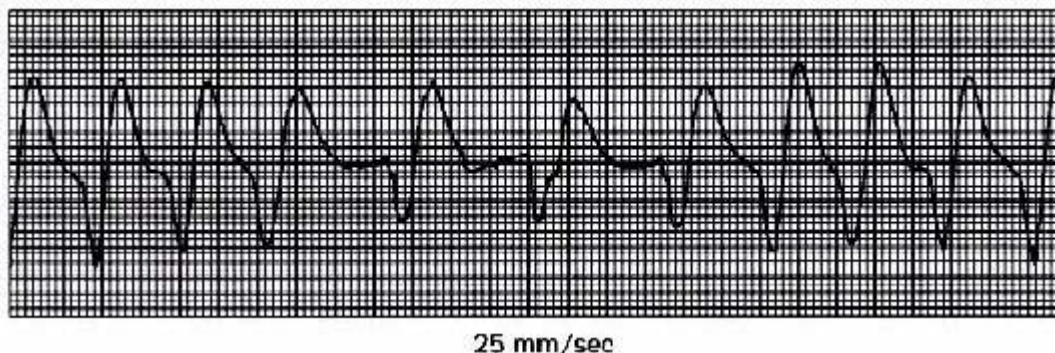
QUESTION: 5

A patient with severe airflow limitation pants too rapidly (> 3 breaths/second) against a closed shutter in a body plethysmograph. Which of the following will occur?

- A. VTGunderestimation
- B. VTGoverestimation
- C. RAWunderestimation
- D. RAWoverestimation

Answer(s): D

QUESTION: 6



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