

**Smith Seminars 2012 Online Course**  
Arterial Blood Gases – Printed Test Page 1

NAME \_\_\_\_\_

DATE \_\_\_\_\_

1. \_\_\_\_\_ Measured values that may be included in ABGs are:
  - A) Oxygen Saturation (SO<sub>2</sub>)
  - B) Bicarbonate (HCO<sub>3</sub>)
  - C) Base excess (BE)
  - D) None of the above
  
2. \_\_\_\_\_ Indications for ABGs include:
  - A) Clinical presentation of abnormal ventilation, oxygenation, and acid-base status
  - B) Evaluation of changes in therapy such as FIO<sub>2</sub> and applied PEEP
  - C) Evaluation of changes in ventilator rate or tidal volume
  - D) All the above
  
3. \_\_\_\_\_ If an ABG sample is contaminated with air:
  - A) The measured PO<sub>2</sub> of the sample increases if the true value is less than 150 mmHg
  - B) The measured pH and PCO<sub>2</sub> of the sample decreases
  - C) A & B
  - D) None of the above
  
4. \_\_\_\_\_ Arterial catheter may be indicated if there is:
  - A) A need for continuous monitoring of arterial blood pressure in a hemodynamically unstable patient
  - B) A need for frequent arterial blood gas samples or other laboratory assessment
  - C) A & B
  - D) None of the above
  
5. \_\_\_\_\_ Contraindications for an arterial needle stick include:
  - A) Area with a shunt, fistula, lesion or severe peripheral vascular disease
  - B) Positive modified Allen's test
  - C) No history of clotting disorder
  - D) All of the above
  
6. \_\_\_\_\_ When performing a modified Allen's test, the therapist should:
  - A) Compress the brachial artery and tell the patient to make a fist and hold
  - B) Assess the hand for 2-3 minutes to check for flushing
  - C) Proceed with the stick if ulnar filling is poor and no flushing occurs
  - D) Compress the radial and ulnar arteries and tell patient to make a fist and open the hand

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7. \_\_\_\_\_ When a patient has uncompensated metabolic acidosis there may be:
- A) A decreased pH, normal PCO<sub>2</sub>, and a decreased HCO<sub>3</sub>
  - B) A normal pH, increased PCO<sub>2</sub>, and increased HCO<sub>3</sub>
  - C) An increased pH, decreased PCO<sub>2</sub>, and decreased HCO<sub>3</sub>
  - D) None of the above
8. \_\_\_\_\_ Disorders associated with hypercapnia include:
- A) Central respiratory depression or chest wall abnormality
  - B) Upper or lower respiratory tract disease
  - C) Abnormal neuromuscular function
  - D) All the above
9. \_\_\_\_\_ Normal range values for ABGs are
- A) pH 7.35-7.45
  - B) HCO<sub>3</sub> 35-45 mmHg
  - C) PCO<sub>2</sub> 15-45 mEq/L
  - D) PO<sub>2</sub> <20 mmHg
10. \_\_\_\_\_ If the pH is abnormal, one value either PaCO<sub>2</sub> or HCO<sub>3</sub> is abnormal, and one value is normal the condition is:
- A) Respiratory alkalosis
  - B) Metabolic acidosis
  - C) Compensated
  - D) Uncompensated

### Submission Instructions

Print the test, answer the questions, and fill out personal information.

Submission Method #1 – Fax to us at 972-759-9791

Submission Method #2 – Smith Seminars, PO Box 516, Paradise, TX 76073

Submission Method #3 – Go to [www.smithseminars.com](http://www.smithseminars.com) online tests and enter answers

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