

# Natural Sciences

# Chemistry

# Practice

# Test

Author: Sandhills MLT

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## 4. Chapter: Chemistry Practice Test

### 1. Chemistry Practice Test Questions

#### 4.1.1. An example of a random error is

Author: Sandhills MLT

An example of a random error is

Please choose only one answer:

- choice of wrong QC material
- expired instrument calibration
- small hole in the instrumentation tubing
- a deteriorating lamp on an instrument

Check the answer of this question online at QuizOver.com:

Question: [An example of a random error is Sandhills MLT Chemistry Practice](#)

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#### 4.1.2. The test principle that employs light scatter is called

Author: Sandhills MLT

The test principle that employs light scatter is called

Please choose only one answer:

- spectrophotometry
- atomic absorption spectrophotometry
- HPLC
- nephelometry

Check the answer of this question online at QuizOver.com:

Question: [The test principle that employs light Sandhills MLT Chemistry Quest](#)

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#### 4.1.3. Calculate the LDL

Total Cholesterol: 250 mg/dl

Trig: 100 mg/dl

H...

Author: Sandhills MLT

Calculate the LDL

Total Cholesterol: 250 mg/dl

Trig: 100 mg/dl

HDL: 40mg/dl

Please choose only one answer:

- 170 mg/dl
- 190 mg/dl
- 210 mg/dl
- 140 mg/dl

Check the answer of this question online at QuizOver.com:

Question: [Calculate the LDL Total Cholesterol: 250 Sandhills MLT Chemistry](#)

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#### 4.1.4. One of the most common post analytical errors is

Author: Sandhills MLT

One of the most common post analytical errors is

Please choose only one answer:

- mislabeling of the patient sample
- hemolysis
- inaccurate visual reading of completed testing
- inaccurate documentation of test data

Check the answer of this question online at QuizOver.com:

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#### 4.1.5. A particle that can carry both a negative and a positive charge on ...

Author: Sandhills MLT

A particle that can carry both a negative and a positive charge on the same molecule is

Please choose only one answer:

- an apoenzyme
- an ampholyte
- a holoenzyme
- a colloid

Check the answer of this question online at QuizOver.com:

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#### 4.1.6. Choose the Westgard Rule failure that indicates a shift in QC

Author: Sandhills MLT

Choose the Westgard Rule failure that indicates a shift in QC

Please choose only one answer:

- 7T
- 1 2S
- 4 1S
- 10X

Check the answer of this question online at QuizOver.com:

Question: [Choose the Westgard Rule failure that Sandhills MLT Chemistry Quest](#)

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#### 4.1.7. Antibodies increased in Waldenstrom's Macroglobulinemia are

Author: Sandhills MLT

Antibodies increased in Waldenstrom's Macroglobulinemia are

Please choose only one answer:

- IgG and IgA
- IgM and IgG
- IgM, IgA, and IgG
- IgM

Check the answer of this question online at QuizOver.com:

Question: [Antibodies increased in Waldenstrom's Sandhills MLT Chemistry Quest](#)

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#### 4.1.8. What is the concentration of a solution that contains 25 g/L of NaO...

Author: Sandhills MLT

What is the concentration of a solution that contains 25 g/L of NaOH in 3000ml of reagent grade water?

Please choose only one answer:

- 25%
- 30%
- 3.0%
- 2.5%

Check the answer of this question online at QuizOver.com:

Question: [What is the concentration of a solution Sandhills MLT Chemistry Quest](#)

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#### 4.1.9. Which of the following is NOT diagnostic criteria considered accept...

Author: Sandhills MLT

Which of the following is NOT diagnostic criteria considered acceptable for diagnosing Diabetes mellitus?

Please choose only one answer:

- 2 consecutive fasting glucose levels of >126 mg/dl
- a random glucose of >200 mg/dl
- FBS>126 mg/dl
- 2 hour pp sample of >140 mg/dl

Check the answer of this question online at QuizOver.com:

Question: [Which of the following is NOT diagnostic Sandhills MLT Chemistry](#)

Flashcards:

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#### 4.1.10. In order to mathematically measure dispersion, which statistical me...

Author: Sandhills MLT

In order to mathematically measure dispersion, which statistical method should be used?

Please choose only one answer:

- Mean
- Variance
- Standard deviation
- B and C

Check the answer of this question online at QuizOver.com:

Question: [In order to mathematically measure dispersion Sandhills Chemistry](#)

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4.1.11. Calculate that unknown sample concentration.

Std 1: Abs 0.020 Co...

Author: Sandhills MLT

Calculate that unknown sample concentration.

Std 1: Abs 0.020 Conc: 30 mg/dl

Std 2: Abs 0.050 Con.: 90 mg/dl

Std 3: Abs 0.090 Conc: 180 mg/dl

Unk sample Abs: 0.070

Please choose only one answer:

- Cannot calculate
- 100 mg/dl
- 26 mg/dl
- 126 mg/dl

Check the answer of this question online at QuizOver.com:

Question: [Calculate that unknown sample concentration Sandhills Chemistry Quest](#)

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#### 4.1.12. Calculate the creatinine clearance

UCRE: 250 mg/dl

PCRE: 1.8 mg/d...

Author: Sandhills MLT

Calculate the creatinine clearance

UCRE: 250 mg/dl

PCRE: 1.8 mg/dl

24 hour urine volume: 1200ml

Please choose only one answer:

- 106 ml/mm
- 116 mg/min
- 116 ml/min
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Calculate the creatinine clearance UCRE: Sandhills MLT Chemistry](#)

Flashcards:

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#### 4.1.13. In primary hypothyroidism, which of the following is increased?

Author: Sandhills MLT

In primary hypothyroidism, which of the following is increased?

Please choose only one answer:

- TSH
- FT4
- T3
- T4

Check the answer of this question online at QuizOver.com:

Question: [In primary hypothyroidism which of the Sandhills MLT Chemistry Quest](#)

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4.1.14. In a normal distribution curve, 99.7% of the data points will fall ...

Author: Sandhills MLT

In a normal distribution curve, 99.7% of the data points will fall within \_\_\_\_\_ of the mean.

Please choose only one answer:

- +/- 1SD
- +/- 2SD
- +/- 3SD
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [In a normal distribution curve 99.7 of the Sandhills MLT Chemistry](#)

Flashcards:

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#### 4.1.15. Determine the amount of globulin present from the following results...

Author: Sandhills MLT

Determine the amount of globulin present from the following results:

TP=8.0 g/dl

ALB=4.5g/dl

Please choose only one answer:

- 2.5 g/dl
- 3.5 ml
- 4.0 g/dl
- 3.5 g/dl

Check the answer of this question online at QuizOver.com:

Question: [Determine the amount of globulin present Sandhills MLT Chemistry](#)

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4.1.16. You are required to make a 3% bleach solution, and you need 1 L of ...

Author: Sandhills MLT

You are required to make a 3% bleach solution, and you need 1 L of solution. Determine how much bleach should be used to make the working solution.

Please choose only one answer:

- 3ml
- 30ml
- 300ml
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [You are required to make a 3 bleach solution Sandhills Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-you-are-required-to-make-a-3-bleach-solution-sandhills-chemis?pdf=3044>

Interactive Question:

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#### 4.1.17. An absorption spectrophotometer can read electromagnetic wavelength...

Author: Sandhills MLT

An absorption spectrophotometer can read electromagnetic wavelengths in this range

Please choose only one answer:

- 400-700nm
- <400 nm
- >700 nm
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [An absorption spectrophotometer can read Sandhills MLT Chemistry](#)

Flashcards:

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#### 4.1.18. The lab tech mad a 1:100 dilution of a patient plasma for lipase te...

Author: Sandhills MLT

The lab tech mad a 1:100 dilution of a patient plasma for lipase testing. The 1:100 dilution yielded a result of 150 mg/dl, which was within the analyzer's linear range of reportability. What patient result should be reported as the final result?

Please choose only one answer:

- 1500 mg/dl
- 15000 mg/dl
- 150000 mg/dl
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [The lab tech mad a 1:100 dilution of a Sandhills MLT Chemistry Quest](#)

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#### 4.1.19. What enzymatic method of testing is considered to be the reference ...

Author: Sandhills MLT

What enzymatic method of testing is considered to be the reference method for glucose testing?

Please choose only one answer:

- glucose oxidase
- urease
- glucose hexokinase
- jaffe reaction

Check the answer of this question online at QuizOver.com:

Question: [What enzymatic method of testing is considered Sandhills Chemistry](#)

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4.1.20. Enzymes \_\_\_\_\_ the EA.

Author: Sandhills MLT

Enzymes \_\_\_\_\_ the EA.

Please choose only one answer:

- increase
- decrease
- do not change

Check the answer of this question online at QuizOver.com:

Question: [Enzymes the EA. Sandhills MLT Chemistry Practice Test Quest](#)

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#### 4.1.21. Which of the following would indicate nonspecific inflammation in a...

Author: Sandhills MLT

Which of the following would indicate nonspecific inflammation in an individual?

Please choose only one answer:

- increased CRP
- decreased Albumin
- increased IgG
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Which of the following would indicate Sandhills MLT Chemistry Quest](#)

Flashcards:

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4.1.22. Take 1000ml of a 10% bleach solution and make a 3% solution from it...

Author: Sandhills MLT

Take 1000ml of a 10% bleach solution and make a 3% solution from it. How much 10% bleach must be used to achieve this?

Please choose only one answer:

- 1000ml
- 1500ml
- 2333ml
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Take 1000ml of a 10 bleach solution and Sandhills MLT Chemistry Quest](#)

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4.1.23. What is the mean of the following data set: 5, 7, 9, 10, 12, 8

Author: Sandhills MLT

What is the mean of the following data set: 5, 7, 9, 10, 12, 8

Please choose only one answer:

- 8
- 8.5
- 9
- 9.5

Check the answer of this question online at QuizOver.com:

Question: [What is the mean of the following data set Sandhills MLT Chemistry](#)

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#### 4.1.24. An example of external QC is

Author: Sandhills MLT

An example of external QC is

Please choose only one answer:

- proficiency testing
- blind third party samples
- QC material made and tested within the lab
- A and B

Check the answer of this question online at QuizOver.com:

Question: [An example of external QC is Sandhills MLT Chemistry Practice Test](#)

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#### 4.1.25. The ability to get as close to the actual test value as possible is...

Author: Sandhills MLT

The ability to get as close to the actual test value as possible is called

Please choose only one answer:

- precision
- accuracy
- dispersion
- variance

Check the answer of this question online at QuizOver.com:

Question: [The ability to get as close to the actual Sandhills MLT Chemistry](#)

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#### 4.1.26. Lipoproteins carry

Author: Sandhills MLT

Lipoproteins carry

Please choose only one answer:

- proteins
- fatty acids
- glucose
- all of above

Check the answer of this question online at QuizOver.com:

Question: [Lipoproteins carry Sandhills MLT Chemistry Practice Test Quest](#)

Flashcards:

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#### 4.1.27. Convert 1ul to ml

Author: Sandhills MLT

Convert 1ul to ml

Please choose only one answer:

- 0.001ml
- 0.0001ml
- 0.01ml
- 0.1ml

Check the answer of this question online at QuizOver.com:

Question: [Convert 1ul to ml Sandhills MLT Chemistry Practice Test Quest](#)

Flashcards:

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## 4.1.28. In competitive inhibition

Author: Sandhills MLT

In competitive inhibition

Please choose only one answer:

- the substrate competes with the prosthetic group for the binding site.
- the more competitors you have the less likely you are to activate the reaction.
- a substance similar to the analyte competes for the active site.
- none of the above

Check the answer of this question online at QuizOver.com:

Question: [In competitive inhibit Sandhills MLT Chemistry Practice Test Quest](#)

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#### 4.1.29. In a flipped pattern

Author: Sandhills MLT

In a flipped pattern

Please choose only one answer:

- LD2>LD1
- LD1>LD2
- LD1<LD3
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [In a flipped pattern Sandhills MLT Chemistry Practice Test Quest](#)

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4.1.30. During and AMI, which of the following proteins will rise rapidly y...

Author: Sandhills MLT

During and AMI, which of the following proteins will rise rapidly yet fall within 2 hours?

Please choose only one answer:

- CK
- cTnl
- Myoglobin
- All of the above

Check the answer of this question online at QuizOver.com:

Question: [During and AMI which of the following Sandhills MLT Chemistry Quest](#)

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#### 4.1.31. Chylomicrons are

Author: Sandhills MLT

Chylomicrons are

Please choose only one answer:

- the largest and most dense of the lipoproteins
- the largest and least dense of the lipoproteins
- the smallest and most dense of the lipoproteins
- the smallest and least dense of the lipoproteins

Check the answer of this question online at QuizOver.com:

Question: [Chylomicrons are Sandhills MLT Chemistry Practice Test Quest](#)

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4.1.32. In order to prevent drug therapeutic drug toxicity, which of the fo...

Author: Sandhills MLT

In order to prevent drug therapeutic drug toxicity, which of the following must be collected?

Please choose only one answer:

- Trough levels
- Peak levels
- Neither aid in preventing toxicity
- Both can help prevent toxicity

Check the answer of this question online at QuizOver.com:

Question: [In order to prevent drug therapeutic drug Sandhills MLT Chemistry](#)

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4.1.33. Choose the correct condition:

pH: 7.3

pCO<sub>2</sub>: 55 mmHg

HCO<sub>3</sub>: 31 mg/dl

Author: Sandhills MLT

Choose the correct condition:

pH: 7.3

pCO<sub>2</sub>: 55 mmHg

HCO<sub>3</sub>: 31 mg/dl

Please choose only one answer:

- Metabolic acidosis
- Respiratory acidosis
- Respiratory alkalosis
- Metabolic alkalosis

Check the answer of this question online at QuizOver.com:

Question: [Choose the correct condition: pH: 7.3 pCO Sandhills MLT Chemistry](http://www.quizover.com/question/question-choose-the-correct-condition-ph-7-3-pco-sandhills-mlt-chemist?pdf=3044)

Flashcards:

<http://www.quizover.com/flashcards/question-choose-the-correct-condition-ph-7-3-pco-sandhills-mlt-chemist?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-choose-the-correct-condition-ph-7-3-pco-sandhills-mlt-chemist?pdf=3044>

#### 4.1.34. Which condition will stimulate the secretion of renin?

Author: Sandhills MLT

Which condition will stimulate the secretion of renin?

Please choose only one answer:

- detection of increased blood pressure in the atria
- decreased blood pressure in the nephron
- decreased blood pressure in the glomerulus
- All of the above

Check the answer of this question online at QuizOver.com:

Question: [Which condition will stimulate the secretion Sandhills Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-condition-will-stimulate-the-secretion-sandhills-chemis?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-which-condition-will-stimulate-the-secretion-sandhills-chemis?pdf=3044>

4.1.35. Choose the following situation that would result in a falsely incre...

Author: Sandhills MLT

Choose the following situation that would result in a falsely increased concentration reading from a spectrophotometer.

Please choose only one answer:

- scratched and dirty cuvette
- a deteriorating light source
- sample read 5 minutes after maximum incubation time
- all of the above

Check the answer of this question online at QuizOver.com:

Question: [Choose the following situation that would Sandhills MLT Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-choose-the-following-situation-that-would-sandhills-mlt-chemi?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-choose-the-following-situation-that-would-sandhills-mlt-chemi?pdf=3044>

#### 4.1.36. Primary hormonal dysfunctions are associated with the

Author: Sandhills MLT

Primary hormonal dysfunctions are associated with the

Please choose only one answer:

- secreting gland
- target tissue
- target tissues and secreting gland.
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Primary hormonal dysfunctions are associated Sandhills Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-primary-hormonal-dysfunctions-are-associated-sandhills-chemis?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-primary-hormonal-dysfunctions-are-associated-sandhills-chemis?pdf=3044>

#### 4.1.37. Which of the following tests is commonly used to monitor CHF?

Author: Sandhills MLT

Which of the following tests is commonly used to monitor CHF?

Please choose only one answer:

- CK MB
- nt-proBNP
- cTnl
- Myoglobin

Check the answer of this question online at QuizOver.com:

Question: [Which of the following tests is commonly Sandhills MLT Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-tests-is-commonly-sandhills-mlt-chemis?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-tests-is-commonly-sandhills-mlt-chemis?pdf=3044>

#### 4.1.38. Samples tested for cryoglobulins must be transported to the lab

Author: Sandhills MLT

Samples tested for cryoglobulins must be transported to the lab

Please choose only one answer:

- at 37C
- on ice
- frozen
- at room temperature

Check the answer of this question online at QuizOver.com:

Question: [Samples tested for cryoglobulins must be Sandhills MLT Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-samples-tested-for-cryoglobulins-must-be-sandhills-mlt-chemis?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-samples-tested-for-cryoglobulins-must-be-sandhills-mlt-chemis?pdf=3044>

#### 4.1.39. In the chemistry lab, how many QC levels are used and how frequentl...

Author: Sandhills MLT

In the chemistry lab, how many QC levels are used and how frequently should they be tested?

Please choose only one answer:

- Only 2 and only every other day of testing.
- 2 or 3 depending up the analyte and assay, and they should be tested every day of patient testing.
- Over 3 levels and only once per week
- 1 normal level and once every 8 hours.

Check the answer of this question online at QuizOver.com:

Question: [In the chemistry lab how many QC levels Sandhills MLT Practice Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-in-the-chemistry-lab-how-many-qc-levels-sandhills-mlt-practic?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-in-the-chemistry-lab-how-many-qc-levels-sandhills-mlt-practic?pdf=3044>

4.1.40. Calculate the molarity of a saline solution that contains 10 g/L of...

Author: Sandhills MLT

Calculate the molarity of a saline solution that contains 10 g/L of NaCl. Use the periodic table if needed.

Please choose only one answer:

- 0.02M
- 0.2M
- 0.3M
- 0.14M

Check the answer of this question online at QuizOver.com:

Question: [Calculate the molarity of a saline solution Sandhills Chemistry Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-calculate-the-molarity-of-a-saline-solution-sandhills-chemist?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-calculate-the-molarity-of-a-saline-solution-sandhills-chemist?pdf=3044>

4.1.41. Choose the following cardiac biomarker that holds the most diagnost...

Author: Sandhills MLT

Choose the following cardiac biomarker that holds the most diagnostic clinical significance.

Please choose only one answer:

- Myoglobin
- CK-MB
- cTnl
- cTnC

Check the answer of this question online at QuizOver.com:

Question: [Choose the following cardiac biomarker that Sandhills Chemistry Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-choose-the-following-cardiac-biomarker-that-sandhills-chemist?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-choose-the-following-cardiac-biomarker-that-sandhills-chemist?pdf=3044>

4.1.42. In an electrophoresis, proteins will migrate from the \_\_\_\_\_...

Author: Sandhills MLT

In an electrophoresis, proteins will migrate from the \_\_\_\_\_ to the \_\_\_\_\_.

Please choose only one answer:

- cathode; anode
- anode; cathode

Check the answer of this question online at QuizOver.com:

Question: [In an electrophoresis proteins will migrate Sandhills Chemistry Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-in-an-electrophoresis-proteins-will-migrate-sandhills-chemist?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-in-an-electrophoresis-proteins-will-migrate-sandhills-chemist?pdf=3044>

4.1.43. Calculate the relative CKMB fraction

Total CK: 170 ng/ml

CKMB: 8 ...

Author: Sandhills MLT

Calculate the relative CKMB fraction

Total CK: 170 ng/ml

CKMB: 8 ng/ml

Please choose only one answer:

- 5%
- 3%
- 6%
- 10%

Check the answer of this question online at QuizOver.com:

Question: [Calculate the relative CKMB fraction Total Sandhills MLT Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-calculate-the-relative-ckmb-fraction-total-sandhills-mlt-chem?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-calculate-the-relative-ckmb-fraction-total-sandhills-mlt-chem?pdf=3044>

#### 4.1.44. Aldosterone will

Author: Sandhills MLT

Aldosterone will

Please choose only one answer:

- Increase Na levels
- Promote Na retention at the nephron
- Increase plasma osmotic pressure
- All of the above

Check the answer of this question online at QuizOver.com:

Question: [Aldosterone will Sandhills MLT Chemistry Practice Test Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-aldosterone-will-sandhills-mlt-chemistry-practice-test-quest?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-aldosterone-will-sandhills-mlt-chemistry-practice-test-quest?pdf=3044>

4.1.45. This is the process whereby non-carbohydrate sources are converted ...

Author: Sandhills MLT

This is the process whereby non-carbohydrate sources are converted to a usable source of glucose

Please choose only one answer:

- glycolysis
- glycogenolysis
- glycogenesis
- none of the above

Check the answer of this question online at QuizOver.com:

Question: [This is the process whereby non-carbohydrate Sandhills Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-this-is-the-process-whereby-non-carbohydrate-sandhills-chemis?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-this-is-the-process-whereby-non-carbohydrate-sandhills-chemis?pdf=3044>

#### 4.1.46. PTH will promote

Author: Sandhills MLT

PTH will promote

Please choose only one answer:

- increase in plasma calcium levels
- decrease in plasma calcium levels
- bone resorption
- A and C
- B and C

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [PTH will promote Sandhills MLT Chemistry Practice Test Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-ptH-will-promote-sandhills-mlt-chemistry-practice-test-quest?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-ptH-will-promote-sandhills-mlt-chemistry-practice-test-quest?pdf=3044>

#### 4.1.47. Diabetes mellitus Type 1 is due to

Author: Sandhills MLT

Diabetes mellitus Type 1 is due to

Please choose only one answer:

- improper diet and lack of exercise
- omission of a gene that codes for the production of glucagon
- the presence of an autoantibody directed against the beta cells of the islets of Langerhans
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Diabetes mellitus Type 1 is due to Sandhills MLT Chemistry Practice](#)

Flashcards:

<http://www.quizover.com/flashcards/question-diabetes-mellitus-type-1-is-due-to-sandhills-mlt-chemistry-pr?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-diabetes-mellitus-type-1-is-due-to-sandhills-mlt-chemistry-pr?pdf=3044>

#### 4.1.48. Matrix specific material means

Author: Sandhills MLT

Matrix specific material means

Please choose only one answer:

- that the material can easily float within the analyzer
- that the material content mimics that of the intended sample to be tested.
- that the procedure has a testing matrix that prescribes how to test the material
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Matrix specific material means Sandhills MLT Chemistry Practice Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-matrix-specific-material-means-sandhills-mlt-chemistry-practi?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-matrix-specific-material-means-sandhills-mlt-chemistry-practi?pdf=3044>

#### 4.1.49. The reference method for creatinine testing is

Author: Sandhills MLT

The reference method for creatinine testing is

Please choose only one answer:

- Urease
- Picric acid
- Jaffe reaction
- All of the above

Check the answer of this question online at QuizOver.com:

Question: [The reference method for creatinine testing Sandhills Chemistry Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-reference-method-for-creatinine-testing-sandhills-chemist?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-the-reference-method-for-creatinine-testing-sandhills-chemist?pdf=3044>

4.1.50. What is the specimen dilution if there are 1000 total milliliters o...

Author: Sandhills MLT

What is the specimen dilution if there are 1000 total milliliters of solution with 50ml patient plasma?

Please choose only one answer:

- 1:19
- 1:20
- 1:10
- 1:15

Check the answer of this question online at QuizOver.com:

Question: [What is the specimen dilution if there are Sandhills MLT Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-is-the-specimen-dilution-if-there-are-sandhills-mlt-chem?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-what-is-the-specimen-dilution-if-there-are-sandhills-mlt-chem?pdf=3044>

4.1.51. If a patient has the presence of HbAgs in their plasma, that are co...

Author: Sandhills MLT

If a patient has the presence of HbAgs in their plasma, that are considered to

Please choose only one answer:

- have an active HBV infection
- have had a recent infection but healing
- have antibodies to HBV
- all of the above

Check the answer of this question online at QuizOver.com:

Question: [If a patient has the presence of HbAgs in Sandhills MLT Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-if-a-patient-has-the-presence-of-hbags-in-sandhills-mlt-chemi?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-if-a-patient-has-the-presence-of-hbags-in-sandhills-mlt-chemi?pdf=3044>

4.1.52. Whole blood glucose will increase by 10% every hour the sample is n...

Author: Sandhills MLT

Whole blood glucose will increase by 10% every hour the sample is not processed after collection. This happens due to cellular breakdown

Please choose only one answer:

- True
- False

Check the answer of this question online at QuizOver.com:

Question: [Whole blood glucose will increase by 10 Sandhills MLT Chemistry Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-whole-blood-glucose-will-increase-by-10-sandhills-mlt-chemist?pdf=3044>

Interactive Question:

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#### 4.1.53. In a liquid chromatographer, what is the medium that is responsible...

Author: Sandhills MLT

In a liquid chromatographer, what is the medium that is responsible for carrying the sample during testing?

Please choose only one answer:

- stationary phase
- mobile phase
- column
- none of the above

Check the answer of this question online at QuizOver.com:

Question: [In a liquid chromatographer what is the Sandhills MLT Chemistry Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-in-a-liquid-chromatographer-what-is-the-sandhills-mlt-chemist?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-in-a-liquid-chromatographer-what-is-the-sandhills-mlt-chemist?pdf=3044>

4.1.54. Collecting a sample on the wrong patient is considered a \_\_\_\_\_...

Author: Sandhills MLT

Collecting a sample on the wrong patient is considered a \_\_\_\_\_ error.

Please choose only one answer:

- preanalytical
- analytical
- post analytical

Check the answer of this question online at QuizOver.com:

Question: [Collecting a sample on the wrong patient Sandhills MLT Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-collecting-a-sample-on-the-wrong-patient-sandhills-mlt-chemis?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-collecting-a-sample-on-the-wrong-patient-sandhills-mlt-chemis?pdf=3044>

4.1.55. the first antibody to be produced in an immune response is

Author: Sandhills MLT

the first antibody to be produced in an immune response is

Please choose only one answer:

- IgM
- IgG
- IgA
- IgE

Check the answer of this question online at QuizOver.com:

Question: [the first antibody to be produced in an Sandhills MLT Chemistry Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-first-antibody-to-be-produced-in-an-sandhills-mlt-chemist?pdf=3044>

Interactive Question:

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4.1.56. Which of the following could result in a systematic error?

Author: Sandhills MLT

Which of the following could result in a systematic error?

Please choose only one answer:

- a bubble in the QC sample
- damaged sampling probe on the instrument
- QNS for poored up QC material
- All of the above can result in a systematic error

Check the answer of this question online at QuizOver.com:

Question: [Which of the following could result in a Sandhills MLT Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-could-result-in-a-sandhills-mlt-chemis?pdf=3044>

Interactive Question:

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4.1.57. In First Order reactions, the reaction rate is \_\_\_\_\_...

Author: Sandhills MLT

In First Order reactions, the reaction rate is \_\_\_\_\_ to the amount of substrate.

Please choose only one answer:

- independent
- dependent
- not related

Check the answer of this question online at QuizOver.com:

Question: [In First Order reactions the reaction rate Sandhills MLT Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-in-first-order-reactions-the-reaction-rate-sandhills-mlt-chem?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-in-first-order-reactions-the-reaction-rate-sandhills-mlt-chem?pdf=3044>

4.1.58. If a method is said to be precise but not accurate, what does this ...

Author: Sandhills MLT

If a method is said to be precise but not accurate, what does this mean?

Please choose only one answer:

- Results can be reproduced but those results are not reflective of the mean.
- Results cannot be easily reproduced and are not reflective of the mean.
- Results are reproduced and are reflective of the mean.
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [If a method is said to be precise but not Sandhills MLT Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-if-a-method-is-said-to-be-precise-but-not-sandhills-mlt-chemi?pdf=3044>

Interactive Question:

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#### 4.1.59. Choose the best sample for glucose testing

Author: Sandhills MLT

Choose the best sample for glucose testing

Please choose only one answer:

- FBS collected in an SST tube, processed within 1 hour of collection
- LiHep tube processed within 30 minutes of collection
- NaF tube processed within 3 hours of collection
- Any of the above

Check the answer of this question online at QuizOver.com:

Question: [Choose the best sample for glucose testing Sandhills MLT Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-choose-the-best-sample-for-glucose-testing-sandhills-mlt-chem?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-choose-the-best-sample-for-glucose-testing-sandhills-mlt-chem?pdf=3044>

4.1.60. When the method is able to detect low amounts of the desired analyt...

Author: Sandhills MLT

When the method is able to detect low amounts of the desired analyte, this refers to the \_\_\_\_\_ of the method.

Please choose only one answer:

- specificity
- sensitivity
- linearity
- calibration

Check the answer of this question online at QuizOver.com:

Question: [When the method is able to detect low Sandhills MLT Chemistry Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-when-the-method-is-able-to-detect-low-sandhills-mlt-chemistry?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-when-the-method-is-able-to-detect-low-sandhills-mlt-chemistry?pdf=3044>

#### 4.1.61. Which glass pipet meets class A specifications?

Author: Sandhills MLT

Which glass pipet meets class A specifications?

Please choose only one answer:

- TC
- TD

Check the answer of this question online at QuizOver.com:

Question: [Which glass pipet meets class A specifications Sandhills Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-glass-pipet-meets-class-a-specifications-sandhills-chem?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-which-glass-pipet-meets-class-a-specifications-sandhills-chem?pdf=3044>

#### 4.1.62. Direct bilirubin is also known as

Author: Sandhills MLT

Direct bilirubin is also known as

Please choose only one answer:

- conjugated bilirubin
- unconjugated bilirubin

Check the answer of this question online at QuizOver.com:

Question: [Direct bilirubin is also known as Sandhills MLT Chemistry Practice](#)

Flashcards:

<http://www.quizover.com/flashcards/question-direct-bilirubin-is-also-known-as-sandhills-mlt-chemistry-pra?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-direct-bilirubin-is-also-known-as-sandhills-mlt-chemistry-pra?pdf=3044>

#### 4.1.63. Cirrohsis due to alcoholism would produce an

Author: Sandhills MLT

Cirrohsis due to alcoholism would produce an

Please choose only one answer:

- ALT greater than AST
- AST greater than ALT
- ALT and AST basically the same
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Cirrohsis due to alcoholism would produce Sandhills MLT Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-cirrohsis-due-to-alcoholism-would-produce-sandhills-mlt-chemi?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-cirrohsis-due-to-alcoholism-would-produce-sandhills-mlt-chemi?pdf=3044>

#### 4.1.64. The Westgard Rule failure means that three consecutive QC runs have...

Author: Sandhills MLT

The Westgard Rule failure means that three consecutive QC runs have been performed and 2 of those runs were each out of control by 2 2S

Please choose only one answer:

- 2 2S
- 2 of 3 2S
- 10X
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [The Westgard Rule failure means that three Sandhills MLT Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-westgard-rule-failure-means-that-three-sandhills-mlt-chem?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-the-westgard-rule-failure-means-that-three-sandhills-mlt-chem?pdf=3044>

4.1.65. Determine if the patient is in renal failure.

BUN 35 mg/dl

Cre 5....

Author: Sandhills MLT

Determine if the patient is in renal failure.

BUN 35 mg/dl

Cre 5.0 mg/dl

Please choose only one answer:

- Prerenal Condition
- Renal Failure
- Normal kidney function

Check the answer of this question online at QuizOver.com:

Question: [Determine if the patient is in renal failure Sandhills Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-determine-if-the-patient-is-in-renal-failure-sandhills-chemis?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-determine-if-the-patient-is-in-renal-failure-sandhills-chemis?pdf=3044>

#### 4.1.66. The isoelectric point is the

Author: Sandhills MLT

The isoelectric point is the

Please choose only one answer:

- point where the migration stops
- point where pH net gain and loss of H<sup>+</sup> is equivalent
- point on the electrophoresis used to pinpoint the specific protein
- All of the above

Check the answer of this question online at QuizOver.com:

Question: [The isoelectric point is the Sandhills MLT Chemistry Practice Test](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-isoelectric-point-is-the-sandhills-mlt-chemistry-practice?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-the-isoelectric-point-is-the-sandhills-mlt-chemistry-practice?pdf=3044>

#### 4.1.67. The hollow cathode lamp is the light source for

Author: Sandhills MLT

The hollow cathode lamp is the light source for

Please choose only one answer:

- an absorption spectrophotometer
- a nephelometer
- an atomic absorption spectrophotometer
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [The hollow cathode lamp is the light source Sandhills Chemistry Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-hollow-cathode-lamp-is-the-light-source-sandhills-chemist?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-the-hollow-cathode-lamp-is-the-light-source-sandhills-chemist?pdf=3044>

4.1.68. This pipet must be rinsed out after the fluid is drained from it

Author: Sandhills MLT

This pipet must be rinsed out after the fluid is drained from it

Please choose only one answer:

- TC
- TD
- Mohr
- Serological

Check the answer of this question online at QuizOver.com:

Question: [This pipet must be rinsed out after the Sandhills MLT Chemistry Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-this-pipet-must-be-rinsed-out-after-the-sandhills-mlt-chemist?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-this-pipet-must-be-rinsed-out-after-the-sandhills-mlt-chemist?pdf=3044>

#### 4.1.69. Choose the hormone that will increase blood glucose levels

Author: Sandhills MLT

Choose the hormone that will increase blood glucose levels

Please choose only one answer:

- Glucagon
- Adrenaline
- Norepinephrine
- All of the above

Check the answer of this question online at QuizOver.com:

Question: [Choose the hormone that will increase blood Sandhills Chemistry Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-choose-the-hormone-that-will-increase-blood-sandhills-chemist?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-choose-the-hormone-that-will-increase-blood-sandhills-chemist?pdf=3044>

4.1.70. Determine the anion gap from the information below:

Na 145 mEq/L

...

Author: Sandhills MLT

Determine the anion gap from the information below:

Na 145 mEq/L

K 3.5 mEq/L

Cl 100 mEq/L

CO<sub>2</sub> 22 mEq/L

Please choose only one answer:

- 20.5
- 25
- 26.5
- 120

Check the answer of this question online at QuizOver.com:

Question: [Determine the anion gap from the information Sandhills Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-determine-the-anion-gap-from-the-information-sandhills-chemis?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-determine-the-anion-gap-from-the-information-sandhills-chemis?pdf=3044>

#### 4.1.71. Convery 10F to Celsius

Author: Sandhills MLT

Convery 10F to Celsius

Please choose only one answer:

- 5.0C
- -5.0C
- -25C
- -12.2C

Check the answer of this question online at QuizOver.com:

Question: [Convery 10F to Celsius Sandhills MLT Chemistry Practice Test Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-convery-10f-to-celsius-sandhills-mlt-chemistry-practice-test-?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-convery-10f-to-celsius-sandhills-mlt-chemistry-practice-test-?pdf=3044>

#### 4.1.72. EA (energy of activation) means

Author: Sandhills MLT

EA (energy of activation) means

Please choose only one answer:

- more energy is required to reach the endpoint of the reaction
- the amount of energy required to energize the activated complex.
- the energy required to make the substrate bind to the enzyme
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [EA energy of activation means Sandhills MLT Chemistry Practice Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-ea-energy-of-activation-means-sandhills-mlt-chemistry-practic?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-ea-energy-of-activation-means-sandhills-mlt-chemistry-practic?pdf=3044>

#### 4.1.73. Biuret method tests for

Author: Sandhills MLT

Biuret method tests for

Please choose only one answer:

- Albumin
- Total protein
- Gammaglobulins only
- Globulin only

Check the answer of this question online at QuizOver.com:

Question: [Biuret method tests for Sandhills MLT Chemistry Practice Test Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-biuret-method-tests-for-sandhills-mlt-chemistry-practice-test?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-biuret-method-tests-for-sandhills-mlt-chemistry-practice-test?pdf=3044>

4.1.74. Calculate the normality of a 0.2M saline solution. Use the periodi...

Author: Sandhills MLT

Calculate the normality of a 0.2M saline solution. Use the periodic table if needed.

Please choose only one answer:

- 0.2N
- 2.0N
- 0.02N
- 3.0N

Check the answer of this question online at QuizOver.com:

Question: [Calculate the normality of a 0.2M saline Sandhills MLT Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-calculate-the-normality-of-a-0-2m-saline-sandhills-mlt-chemis?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-calculate-the-normality-of-a-0-2m-saline-sandhills-mlt-chemis?pdf=3044>

4.1.75. What should you expect to see on an SPE if the patient has a histor...

Author: Sandhills MLT

What should you expect to see on an SPE if the patient has a history of hypogammaglobulinemia?

Please choose only one answer:

- decreased ALB
- absolute increase in gammaglobulins
- relative increase in ALB
- all of the above

Check the answer of this question online at QuizOver.com:

Question: [What should you expect to see on an SPE if Sandhills MLT Chemistry](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-should-you-expect-to-see-on-an-spe-if-sandhills-mlt-chem?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-what-should-you-expect-to-see-on-an-spe-if-sandhills-mlt-chem?pdf=3044>