

Example Questions for KSU Measurement Professional Course – to give a sense of what exam questions are like – we will do Practice Questions in class

One picoCurie per liter of radon is defined as:

- A) one billionth of a Curie
- B) 2.22 disintegrations per minute per gram of air
- C) 2.22 disintegrations per minute within a liter of air
- D) 37 billion disintegrations per second

Which one of the following factors influencing houses indoor radon concentrations is the most important determinant of indoor concentrations?

- A) driving forces
- B) house ventilation rate
- C) pathways from the soil to the indoors
- D) radon source strength

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Risk of contracting lung cancer is most closely linked to which of the following:

- A) picoCuries per liter
- B) secular equilibrium
- C) Working Level
- D) Working Level Month

An initial short-term measurement made in the basement family room was 6.4 pCi/L. A follow-up short-term measurement in the same location yielded a result of 3.6 pCi/L. What radon value should be used in determining the need for remediation?

- A) 3.6 pCi/L
- B) 5.0 pCi/L
- C) 6.4 pCi/L
- D) 10.0 pCi/L

According to the MAH Standard the minimum distance a detector must be placed above a floor is:

- A) 12 inches
- B) 20 inches
- C) 30 inches
- D) 36 inches

Which of the following is most true?

- A) both indoor air and water should be tested
- B) both indoor air and, if it is from a well, water should be tested
- C) indoor air should always be tested for radon before well water
- D) well water should always be tested for radon before indoor air

Radon enters a passive device through the which of the following processes?

- A) diffusion
- B) convection
- C) radiation
- D) emanation

Accuracy of an entire measurement system can best be monitored through the use of:

- A) blank measurements
- B) calibration measurements
- C) duplicate measurements
- D) spike measurements

Closed house conditions require \_\_\_\_\_ during a radon test?

- A) Entry doors to be closed continuously
- B) Garage doors to be open
- C) Garage doors to be closed except for normal entry and exit
- D) Entry and garage doors to be closed except for normal entry and exit

The minimum detectable concentration is defined as \_\_\_\_\_?

- A) The lowest measured radon in the home
- B) The radon concentration in outdoor air
- C) The lowest level of radon measured with 95% confidence
- D) There is no minimum detectable concentration