

Question 1

A radioisotope which is neutron poor and very heavy is most likely to decay by

- A) alpha emission, electron capture, or positron emission.
- B) only alpha emission.
- C) only electron capture.
- D) only positron emission.

Answer: <https://biology-forums.com/index.php?topic=291352>

Question 2

Assume that the vapor at point c is condensed and reboiled. What is the liquid composition of the condensed vapor prior to reboiling?

- A) 100% decane
- B) composition at point b
- C) composition at point d
- D) composition at point e

Answer: <https://biology-forums.com/index.php?topic=290266>

Question 3

From the activity list included in this problem, which element will not dissolve in dilute hydrochloric acid?

Activity Series =

- A) Sn
 - B) Pb
 - C)
 - D) Cu
 - E) none of the above
- [br]

Answer: <https://biology-forums.com/index.php?topic=176635>

Question 4

What is the mass of a single ozone molecule, O₃?

- A) 2.656×10^{-23} g
- B) 7.969×10^{-22} g
- C) 16.0 g
- D) 48.0 g

Answer: <https://biology-forums.com/index.php?topic=289080>

Question 5

Which of the following cities is the premier science and technology center of India?

- A) Kabul
- B) New Delhi
- C) Bangalore
- D) Lahore
- E) Islamabad

Answer: <https://biology-forums.com/index.php?topic=131146>

Question 6

What is the molarity of a solution prepared by dissolving NaI in ?

- A) 42.8
 - B) 0.0714
 - C) 2.86
 - D) 0.286
 - E) none of the above
- [br]

Answer: <https://biology-forums.com/index.php?topic=176384>

Question 7

A lead ball has a mass of 55.0 grams and a density of 11.4 g/cm³. What is the volume of the ball?

- A) 0.207 mL
- B) 0.207 L
- C) 4.82 mL

- D) 4.82 L
E) none of the above
[br]

Answer: <https://biology-forums.com/index.php?topic=175576>

Question 8

Which of the following terms can be used to describe an electrochemical cell in which a spontaneous chemical reaction generates an electric current?

- I. an electrolytic cell
II. a galvanic cell
III. a voltaic cell
A) only I
B) only II
C) only III
D) II and III

Answer: <https://biology-forums.com/index.php?topic=291089>

Question 9

These areas are created when land erosion and a high water table have allowed some of the water to percolate to the surface.

- A) mandate
B) qanats
C) flaj
D) foggara
E) oases

Answer: <https://biology-forums.com/index.php?topic=130886>

Question 10

Which concentration becomes smaller as the temperature is increased from 25°C to 60°C?

- A) mass %
B) molality
C) molarity
D) mole fraction

Answer: <https://biology-forums.com/index.php?topic=290298>

Question 11

Farms used to grow crops mainly for local consumption during the colonial era were called:

- A) encomienda
B) minifundia
C) latifundia
D) haciendas
E) plantations

Answer: <https://biology-forums.com/index.php?topic=131055>

Question 12

Trade Winds blow from which direction?

- A) East
B) South
C) North
D) West
E) Both East and West

Answer: <https://biology-forums.com/index.php?topic=130737>

Question 13

Which of the following must be true in order for this reaction to always proceed spontaneously?

- A) $K = Q$
B) $K > Q$
C) $K < Q$
D) None of these, spontaneity is dependent on reaction conditions.

Answer: <https://biology-forums.com/index.php?topic=291019>

Question 14

What is the base SI unit for mass?

- A) kilogram
- B) gram
- C) pound
- D) ton
- E) none of the above

[br]

Answer: <https://biology-forums.com/index.php?topic=175553>

Question 15

What volume of a 0.716 M KBr solution is needed to provide 10.5 g of KBr?

- A) 7.52 mL
- B) 14.7 mL
- C) 63.2 mL
- D) 123 mL

Answer: <https://biology-forums.com/index.php?topic=290282>

Question 16

After World War II, this German city was divided between two countries, one under democratic rule, the other under Communist rule.

- A) Bonn
- B) Dortmund
- C) Berlin
- D) Amsterdam
- E) Munich

Answer: <https://biology-forums.com/index.php?topic=130783>