

July 31, 2014

Quiz answers:

1. A –omit?
2. D
3. D
4. B
5. A
6. D
7. A
8. D
9. B
10. D
11. A
12. A
13. A

- Lead is at the end of all the naturally occurring radioactive materials.
- Radioactive sensitivity of cells → cells are more rapidly dividing at a young age.
  - Actively dividing cells are more sensitive than slowly dividing cells
  - The shorter the time between mitoses, the greater the sensitivity of cells
  - Embryonic and immature cells are more sensitive than mature cells of the same tissue
- Mutations over short time are more dangerous than those over long periods of time
- Radium goes to the bone, iodine goes to thyroid
- $^{99}\text{Mo}$  is the number one radioactive substance used in hospitals → can tag on to drugs to get it into the area that it was.  $\frac{1}{2}$  life of about 3 days → decays into  $^{99}\text{Tc}$
- Hydrogen → tritium has a  $\frac{1}{2}$  life of 12.26 years, very low Beta emission