

Q1\A patient with thyroid cancer received a dose of chemotherapy consisting of two radioactive elements A, B, the effective age of A, twice the effective life of B, and the time period required for the thyroid gland to get rid of 10 grams of the 20 grams with which the thyroid gland was treated with substance B, one week, which represents one third of the time needed to reduce the radioactivity of the same element by half. Calculate the total time period required for the effect of the radioactive material that the patient was treated with equal to zero?

Q2\ what are the blood pressure values to healthy young dentist if you replace the mercury in sphygmomanometer by liquid have the same density to healthy human unclotted blood.

Q3\ An electrical resonance circuit in a medical device has an capacity of capacitor equal to 0.001L to inductance of the coil in the same circuit , if resonance frequency equals to 5 L ,calculate XL,XC,F,C to this circuit.

Q4\ Initial Activity of radioactive isotope equal to 10 disintegration each second , If decay constant equal to $(50/t)$ to this radioactive elements calculate their final radioactivity after (t) time.

ملاحظة : قيمة اس العدد الطبيعي يجب ان تكون موجبة دائماً لذلك نعوض عن مقدار ثابت الانحلال بقيمة سالبة.