

**Subject - Math AA(Standard Level)**

**Topic - Functions**

**Year - May 2021 - Nov 2022**

**Paper -2**

**Questions**

**Question 1**

[Maximum mark: 7]

All living plants contain an isotope of carbon called carbon-14. When a plant dies, the isotope decays so that the amount of carbon-14 present in the remains of the plant decreases. The time since the death of a plant can be determined by measuring the amount of carbon-14 still present in the remains.

The amount,  $A$ , of carbon-14 present in a plant  $t$  years after its death can be modelled by  $A = A_0 e^{-kt}$  where  $t \geq 0$  and  $A_0, k$  are positive constants.

At the time of death, a plant is defined to have 100 units of carbon-14.

(a) Show that  $A_0 = 100$ . [1]

The time taken for half the original amount of carbon-14 to decay is known to be 5730 years.

(b) Show that  $k = \frac{\ln 2}{5730}$ . [3]

(c) Find, correct to the nearest 10 years, the time taken after the plant's death for 25% of the carbon-14 to decay. [3]

**Question 2**

[Maximum mark: 6]

The functions  $f$  and  $g$  are defined for  $x \in \mathbb{R}$  by  $f(x) = 6x^2 - 12x + 1$  and  $g(x) = -x + c$ , where  $c \in \mathbb{R}$ .

(a) Find the range of  $f$ . [2]

(b) Given that  $(g \circ f)(x) \leq 0$  for all  $x \in \mathbb{R}$ , determine the set of possible values for  $c$ . [4]

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**Emilie Sanchez**



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