# 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  $t \ge 0$  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  $A_0 = 100$ .

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  $g(x) = -x + \varepsilon$ , where  $c \in \mathbb{R}$ .

- (a) Find the range of f. [2]
- (b) Given that (g ∘ f)(x) ≤ 0 for all x ∈ R, determine the set of possible values for c. [4]

## May 2013 Math Sl Paper 2

**David A. Sousa** 

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