

QUESTION 4

A scientific theory supposes that mistakes in cell division occur according to a Poisson process with the rate of λ per year, and that an individual dies when n such mistakes have occurred.

- (4.1) Assuming that T_i is the time elapsed between the $(i - 1)^{\text{th}}$ and the i^{th} cell division mistakes, give the distribution of T_i , then write down its mean and variance. (4)
- (4.2) Suppose that S_n is the time until n cell division mistakes occur. Write down the expression of S_n in terms of the random variables T_i , then give the distribution of S_n , and write down its mean and variance. (4)
- (4.3) If $n = 200$ and $\lambda = 4$, calculate the mean and the variance of the lifetime of an individual. (4)
- (4.4) For $n = 200$ and $\lambda = 4$, approximate the probability that an individual dies before the age of 55 years. (4)

[16]**QUESTION 5**

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JE Gale



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