# Subject - Math(Higher Level) Topic - Statistics and Probability Year - Nov 2011 - Nov 2019

#### Question 1

[Maximum mark: 6]

In a particular city 20 % of the inhabitants have been immunized against a certain disease. The probability of infection from the disease among those inanumized is  $\frac{1}{10}$ , and among those not immunized the probability is  $\frac{3}{4}$ . If a person is chosen at random and found to be infected, find the probability that this person has been immunized.

#### Question 2

[Maximum mark: 6]

A target consists of three concentric circles of radii 1 m, 3 m and 5 m respectively, as shown in the diagram.

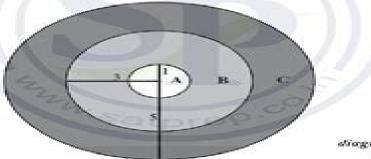


diagram not to scale

Nima shoots an arrow at the target. She has a probability of  $\frac{1}{2}$  of hitting the target. If the arrow hits the target it does so at a random point on the target. Ten points are scored for hitting region A, six points for hitting region B, and three points for hitting region C. Find the expected number of points Nina scores each time she shoots an arrow at the target.

# **Mathematics Hl Paper 3 Statistics And Probability**

**Arturo Cuomo** 

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