[Maximum mark: 17]

(a) A bag contains 20 coloured balls of which 12 are red and 8 are blue. A random sample of 6 of these balls is selected without replacement. Calculate the mean and the variance of the number of red balls in the sample.

[7 marks]

(b) The random variable X has the negative binomial distribution NB(5, p), where p < 0.5, and P(X = 10) = 0.05. By first finding the value of p, find the value of P(X = 11).

[10 marks]

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