

5. *[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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