## SAMPLE PAPER 7: PAPER 2





Median = 3400 gInterquartile range = 3670 - 3060 = 610 g

## Question 5 (b)

Range of weights below the  $10^{\text{th.}}$  percentile = 0-2600 g

## Question 5 (c) (i)

- A. n = 12, P(Need special care) = 0.15, P(Do not need special care) = 0.85,  $P(2 \text{ need special care}) = {}^{12}C_2(0.15)^2(0.85)^{10} = 0.2924$
- B. P(More than two need special care) = 1 P(Two or one or none need special care)=  $1 - \{0.2924 + {}^{12}C_1(0.15)^1(0.85)^{11} + {}^{12}C_0(0.15)^0(0.85)^{12}\}$ = 0.2641

Question 5 (c) (ii)

 $E = 100 \times 0.2641 = 26.41$  occasions