

**Question 1(e) : Find the relative error for the sum of  $\frac{1}{7}$  and  $\frac{1}{15}$  correct to four decimal.**

**Answer :**

$$\text{Relative error} = \frac{(0.1429+0.0667)-(\frac{1}{7}+\frac{1}{15})}{(\frac{1}{7}+\frac{1}{15})}$$

$$\text{Relative error} = 0.0004$$

$$\text{Percentage error} = \text{Relative error} \times 100$$

$$\text{Percentage error} = 0.0364\%$$