## **Question 5**

Table 1 Calculated Magnitude and phase of X[k]

n	x[n]	X[k]	Magnitude	Phase
0	12	20	20	0
1	0	4	4	0
2	8	20	20	0
3	0	4	4	0

## **Question 6**

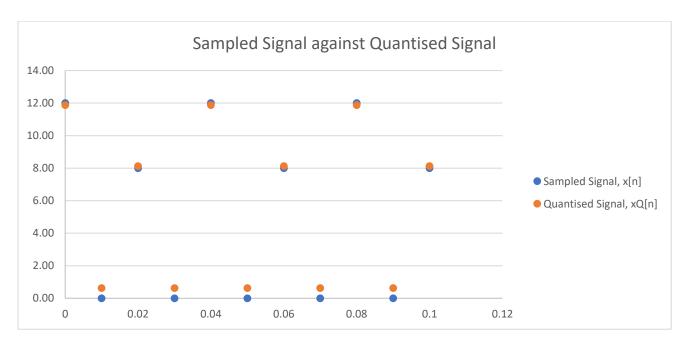


Figure 1 - Sampled Signal against Quantised Signal

## **Question 7**

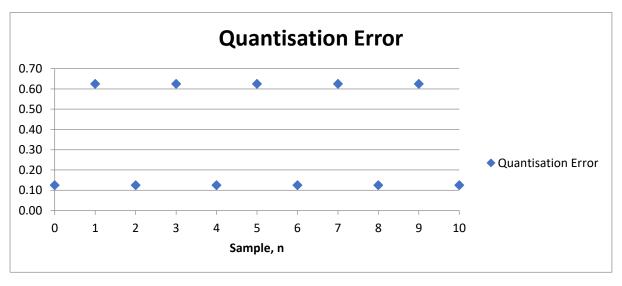


Figure 2 - Quantisation Error