

Q. No.

Marks

Q. 1.(c)

$$P = 4, F = 50\text{Hz}, N = 1440\text{ rpm}$$

$$N_s = \frac{120f}{P} = \frac{120 \times 50}{4} = 1500\text{ rpm}$$

$$\text{Slip} = \frac{N_s - N}{N_s} = \frac{1500 - 1440}{1500} = 0.04$$