

$$\therefore 3. c) d_1 = \frac{0.1503 + (0.025 + \frac{0.14^2}{2}) \times 0.25}{0.14 \sqrt{0.25}}$$

$$= 0.1637$$

$$d_2 = d_1 - 0.14 \sqrt{0.25}$$

$$= 0.0687625$$

$$d) N(d_1) = 0.434984$$

$$N(d_2) = 0.472614$$

f) For given Period to option expiry
a binomial Model will converge to Black-Scholes
model as the number of branches increases.

$$4. 2) X_t = \ln(S_t / S_{t-1})$$

$$X_1 = \ln(35.85 / 40.25) \\ = -0.115766$$