```
Part i )

1) 1/1000 = 0.001
2) 1/10 * 9/10 * 1/10 = 9/1000 = 0.009

3) 3 * (1/10 * 9/10 * 9/10) = 243/1000 = 0.243

4) Probability of catching flu in two months out of three = 3 (1/10 * 1/10 * 9/10) = 27/1000

Probability of catching flu all three months = 1/1000

Total probability of catching flu in two or more of the three months = 27/1000 + 1/1000 = 28/1000 = 7/250 = 0.028

Part ii)
```

1/10 * 1/20 * 1/40 = **1/8000 = 0.000125**