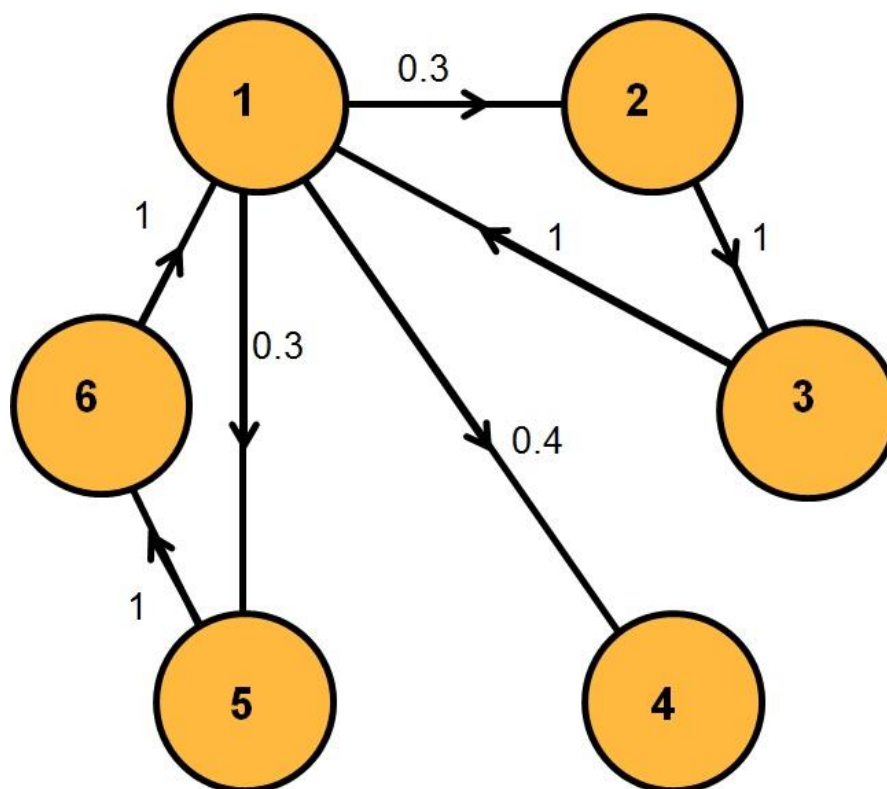


University of Technology Sydney
School of Mathematical and Physical Sciences

Probability and Random Variables (37161) –
 Class 11 Preparation Work
 SOLUTIONS

1.

a)



b) State 4 is absorbing.

c) States 1, 2, 3, 5 and 6 all have period 3.

2.

a)

i) C, D, E, G and H are persistent.

ii) A is absorbing.

iii) B and F are transient.

b) G and H have period 2. All others are aperiodic.