(b) Kelly and Jolly play a game repeatedly. The probability that Kelly wins any game is 0.3. Each game is won by either Kelly or Jolly. They stop playing when one of them has won two games and becomes the champion.

(i) Find the probability that Jolly becomes the champion after playing exactly 2 games. (02 marks)

(ii) Find the probability that jolly becomes the champion. (03 marks)

(iii) Given that Kelly becomes the champion, find the probability that he won the second game. (02 marks)

16.(a) Three particles of mass 2kg, 3kg and mkg are