Math1205 Discrete Mathematics Assignment 4

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#6.1 [25 marks / 15]
1. How many different three-letter initials with none of the letters repeated can people have?

Student's solution...

#6.3 [25 marks / 20]
2. Suppose that a department contains 10 men and 15 women. How many ways are there to form a committee with six members if it must have the same number of men and women?

Student's solution...

#7.3 [30 marks / 10]
3. Find each of the following probabilities when n independent Bernoulli trials are carried out with probability of success p.

Student's solution...

#10.6 [20 marks / 15]
4. Explain how to find a path with the least number of edges between two vertices in an undirected graph by considering it as a shortest path problem in a weighted graph.

Student's solution...