Name: CHAN King Yeung

SID: 1155119394

STAT2006 Assignment 1

Question 1

Question 2

1. Since does not follow Poisson distribution, they are not independent

Question 3

1. Since the support of the joint distribution is the product set of space of and space of ; and

can be rewrite as , where

and , both are valid pdfs

and are independent

Question 4

Question 5



1. Since , and are independent