

**213.** For an insurance portfolio:

- (i) The number of claims has the probability distribution

$n$	$P_n$
0	0.1
1	0.4
2	0.3
3	0.2

- (ii) Each claim amount has a Poisson distribution with mean 3; and  
(iii) The number of claims and claim amounts are mutually independent.

Calculate the variance of aggregate claims.

- (A) 4.8  
(B) 6.4  
(C) 8.0  
(D) 10.2  
(E) 12.4