

**212.** For an insurance:

- (i) The number of losses per year has a Poisson distribution with  $\lambda = 10$ .
- (ii) Loss amounts are uniformly distributed on  $(0, 10)$ .
- (iii) Loss amounts and the number of losses are mutually independent.
- (iv) There is an ordinary deductible of 4 per loss.

Calculate the variance of aggregate payments in a year.

- (A) 36
- (B) 48
- (C) 72
- (D) 96
- (E) 120