

**276.** For a group of policies, you are given:

- (i) Losses follow the distribution function

$$F(x) = 1 - \theta/x, \quad \theta < x < \infty.$$

- (ii) A sample of 20 losses resulted in the following:

Interval	Number of Losses
$x \leq 10$	9
$10 < x \leq 25$	6
$x > 25$	5

Calculate the maximum likelihood estimate of  $\theta$ .

- (A) 5.00  
(B) 5.50  
(C) 5.75  
(D) 6.00  
(E) 6.25