The sum of the series $\sum_{n=8}^{17} 1/(n+2)(n+3)$ is equal to

1.1/17

2.1/18

3.1/19

4.1/20

Solution:

 $S = \sum_{n=8^{17}} \frac{1}{(n+2)(n+3)}$ = $\sum_{n=8^{17}} \frac{1}{(n+2)} - \frac{1}{(n+3)}$ = $((1/10) - (1/11) + (1/11) - (1/12) + \dots + (1/19) - (1/20))$ = (1/10) - (1/20)= 1/20Hence option (4) is the answer.