Binomial Theorem - Class XI

Related Questions with Solutions

Questions

Quetion: 01

The index n of the binomial $\left(\frac{1}{5}+\frac{2}{5}\right)^n$ if the 9th term of the expansion has numerically greatest coefficient (n $\lfloor N \rfloor$) is

Solutions

Solution: 01

$$8 < \left(\frac{n+1}{1+\frac{1}{2}}\right) < 9$$

$$8 < \frac{2n+2}{3} < 9$$

$$11 < n < \frac{25}{2}$$

$$n = 12$$

Correct Options

Answer:01

Correct Answer: 12