

**A student is to answer 10 out of 13 questions in an examination such that he must choose at least 4 from the first five questions. The number of choices available to him is (2003)**

- 1) 140      2) 196      3) 280      4) 346

Ans.

$$\begin{aligned} \text{(2) Number of choices} &= {}^5C_4 \times {}^8C_6 + {}^5C_5 \times {}^8C_5 \\ &= 140 + 56. \end{aligned}$$