There are 3 sections in a question paper and each section contains 5 questions. A candidate has to answer a total of 5 questions, choosing at least one question from each section. Then the number of ways, in which the candidate can choose the questions, is:

- a. 2250
- b. 2255
- c. 3000
- d. 1500

Answer:a. 2250

Explanation: Combinations can be (1,1,3),(1,3,1),(3,1,1),(2,2,1),(2,1,2),(1,2,2). No. of ways= $({}^5C_1{}^5C_3)*3+({}^5C_2{}^5C_2{}^5C_1)*3$ =750+1500

=2250