

JEE MAIN PERMUTATIONS AND COMBINATIONS — CIRCULAR PERMUTATIONS AND ARRANGEMENTS WITH RESTRICTIONS (JEE) — PYQS

Max. Marks: 12
Questions: 3

Section A (MCQ) — 2 questions

Q.1 The number of ways, of forming a queue of 4 boys and 3 girls such that all the girls are not together, is:

[JEE Main 2026 (Online) 4th April Morning Shift]

- (1) 5040 (2) 3050 (3) 3410 (4) 4320

Scan or tap for the full solution 

Q.2 In a group of 3 girls and 4 boys, there are two boys B_1 and B_2 . The number of ways, in which these girls and boys can stand in a queue such that all the girls stand together, all the boys stand together, but B_1 and B_2 are not adjacent to each other, is :

[JEE Main 2025 (Online) 22nd January Evening Shift]

- (1) 120 (2) 96 (3) 72 (4) 144

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Section B (Numerical) — 1 question

Q.3 The number of ways, 5 boys and 4 girls can sit in a row so that either all the boys sit together or no two boys sit together, is _____.

[JEE Main 2025 (Online) 23rd January Evening Shift]

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ANSWER KEY

Section A (MCQ) — 2 questions

Ques.	1	2								
Ans.	4	4								

Section B (Numerical) — 1 question

Ques.	3						
Ans.	17280						