

PART 1 - MATHEMATICS

Topic : Probability (class 12)

SECTION-B : (Maximum Marks : 4)

- This section contains **ONE** question.
- The answer to each question is a **NON-NEGATIVE INTEGER**.
- For each question, enter the correct integer corresponding to the answer in the place designated to enter the answer.
- Answer to each question will be evaluated according to the following marking scheme :

Full Marks : +4 If ONLY the correct answer is entered;

Zero Marks : 0 In all other cases.

1. A bag contains N balls out of which 3 balls are white, 6 balls are green, and the remaining balls are blue. Assume that the balls are identical otherwise. Three balls are drawn randomly one after the other without replacement. For $i = 1, 2, 3$, let W_i , G_i , and B_i denote the events that the ball drawn in the i^{th} draw is a white ball, green ball, and blue ball, respectively. If the probability $P(W_1 \cap G_2 \cap B_3) = \frac{2}{5N}$ and the conditional probability $P(B_3 | W_1 \cap G_2) = \frac{2}{9}$, then N equals _____.

[JEE Advanced 2024 Paper 2]

Scan or tap for the full solution



Space for Rough Work

JEE ADVANCED PROBABILITY (CLASS 12) — CONDITIONAL PROBABILITY — PYQS

Test Pattern : JEE (Advanced)

ANSWER KEY

SECTION-B																									
Ques.	1																								
Ans.	11																								