

PART 1 - MATHEMATICS

Topic : Relations and functions

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. Let $a = 3\sqrt{2}$ and $b = \frac{1}{5^{1/6}\sqrt{6}}$. If $x, y \in \mathbb{R}$ are such that

$$3x + 2y = \log_a (18)^{\frac{5}{4}} \text{ and}$$

$$2x - y = \log_b (\sqrt{1080}),$$

then $4x + 5y$ is equal to _____.

[JEE Advanced 2024 Paper 1]

Scan or tap for the
full solution



Space for Rough Work

JEE ADVANCED RELATIONS AND FUNCTIONS — PYQS

Test Pattern : JEE (Advanced)

ANSWER KEY

SECTION-B																					
Ques.	1																				
Ans.	8																				