Grading Scheme

Let us assume that your homework score is h where $0 \leq h \leq 10$ and that your three best test scores are x_1, x_2, x_3. (By a test score we mean the usual sum of the scores on each of the three questions i.e. your question three score counts towards the total score). Suppose also that your best three scores on question three are y_1, y_2, y_3. Note that these need not be on the exactly the same tests that give x_1, x_2, x_3.

Scheme:

Let

$$X = h + 90 \times \frac{x_1 + x_2 + x_3}{300} \text{ and } Y = y_1 + y_2 + y_3.$$

X is rounded up to an integer.

A: $X \geq 85$ and $Y \geq 45$.
B: $X \geq 85$ and $Y < 45$.
B: $70 \leq X \leq 84$.
C: $60 \leq X \leq 69$.
D: $50 \leq X \leq 59$.