

Method

$$12a + 7b = 20 \longrightarrow (1)$$

$$11a + 6b = 14 \longrightarrow (2)$$

$$(1) - (2) \longrightarrow a + b = 6$$

$$7(a + b) = 7 \times 6$$

$$7a + 7b = 42$$

Answer (D)