## TOPIC

Mathematics - Section I - Question 19

## QUESTION

The dot product of two vectors  $\vec{A}$  and  $\vec{B}$  $\vec{A} = 3i + 5j + 7k$  $\vec{B} = 11i + 13j + 17k$ most nearly is (A) 14.80 (B) 33 (C) 56

- (D) 219

## HINT

The dot product of two vectors  $\vec{u} = (u_x, u_y, u_z)$  and  $\vec{v} = (v_x, v_y, v_z)$  is

$$u \cdot v = u_x v_x + u_y v_y + u_z v_z$$

CONTRIBUTOR Autar Kaw