

H.W.

$$\textcircled{1} \int_0^a \int_0^a \int_0^a (yz + zx + xy) dx dy dz \quad \text{Ans. } \frac{3}{4} a^5$$

$$\textcircled{2} \int_{-1}^1 \int_0^z \int_{x-z}^{x+z} (x+y+z) dy dx dz \quad \text{Ans. } 0$$

$$\textcircled{3} \text{ Evaluate } \iiint_R (x+y+z) dx dy dz \text{ where } 0 \leq x \leq 1, 1 \leq y \leq 2, 2 \leq z \leq 3.$$

$$\text{Ans. } \frac{9}{2}$$