

SNS COLLEGE OF TECHNOLOGY



(An Autonomous Institution)
Coimbatore – 35

DEPARTMENT OF MATHEMATICS UNIT - I MULTIPLE INTEGRALS

Triple Integration

Evaluate
$$\int_{0}^{a} \int_{0}^{b} \int_{0}^{c} y y y dy dy dy dx$$

$$= \int_{0}^{a} \int_{0}^{b} y y y y dy dx$$

$$= \int_{0}^{a} \int_{0}^{b} y y y dy dx$$

$$= \int_{0}^{a} \int_{0}^{a} y y y dy dx$$

$$= \int_{0}^{a} \int_{0}^{a} y y dy dx$$

$$= \int_{0}^{a} \int_{0}^{a} y dy dx$$

$$= \int_{0}^{a} \int_{0}^{a} x dx = \int_{0}^{a} \int_{0}^{a} x dx$$

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$$\int \int \int \frac{1}{2} \frac{1}{2$$



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