normal distribution, total = 600

J, x 600 = 0:15 x 6.00 = 90

JX 600 = 0.24 × 600 = 144

3 x 600 = 038 x 600 = 228

of x 600 = 0.18 x 600 = 108

05 x 600 = 0.05 × 600 = 30 1244 = (X) meet

dof = 4 Janain 100) C.004185

 $\alpha^2 = \left(\frac{38-30}{30}\right)^2 + \left(\frac{125-108}{108}\right)^2 + \left(\frac{210-228}{228}\right)^2$

= 8.3581

tray belond to the some ground for 5% significane Level 8.3581 < 9.488

her juloug to the some good

herry normal

for 10% significan lowl

83581 3 7.779

home not normal

Question - 4

Shipment A

ment A

Mean
$$(\bar{x}) = 4.714$$

Variance $(\sigma^2) = 0.00947$

dof $(n) = 12$

Shipment B

Mean
$$(\bar{X}) = 4.74$$

Varnamu $(\sigma^2) = 0.00485$
dof $(n) = 6$

4-test

.. They belong to the same group

t-test

$$\frac{\overline{\chi}_{A} - \overline{\chi}_{B}}{\sqrt{\overline{\chi}_{A}^{2} - \overline{\chi}_{B}^{2}}}$$

- 0.673

.. They belong to the same group