

**Simultaneous equations – 2023 Additional Math 0606**

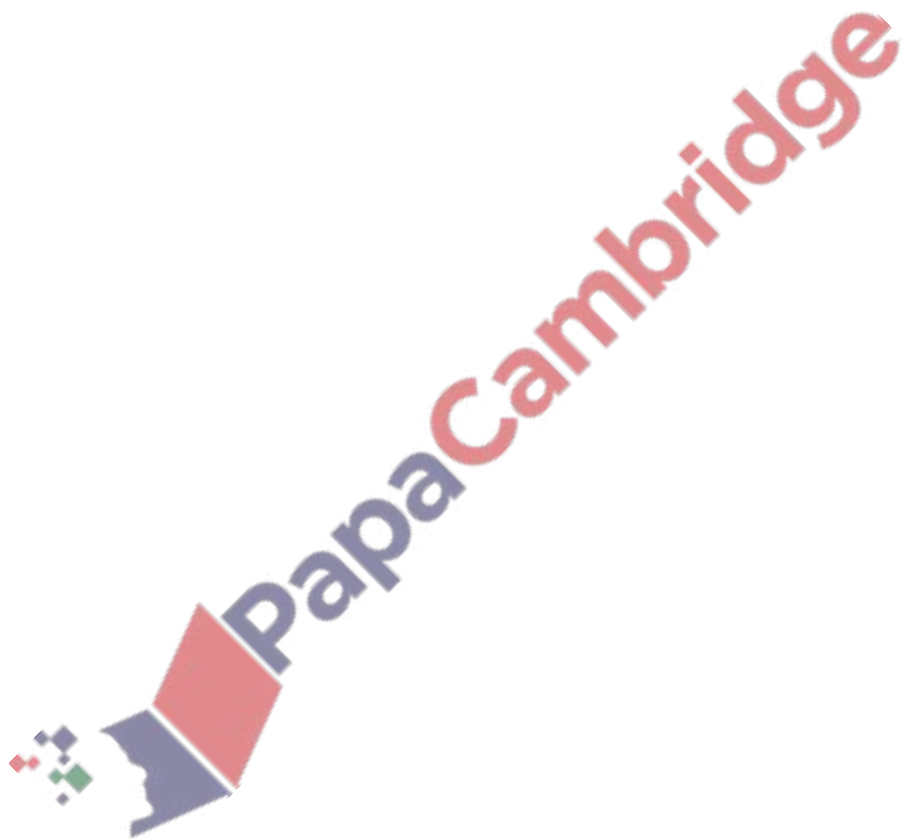
**1. Nov/2023/Paper\_0606/21/No.2**

Solve the following simultaneous equations.

$$5x - 3 \ln y = 2$$

$$x + \ln y = 1$$

[4]



(a) Solve the following simultaneous equations.

$$3 \log_2 x + 2 \log_2 y = 24$$

$$5 \log_2 x - 3 \log_2 y = 2$$

[5]

(b) Solve the equation  $\frac{2^{t+4}}{2^{1-2t}} = 512$ .

[4]

