

DO NOT WRITE IN THIS AREA

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23 (a) Simplify  $7y^0$  where  $y > 0$

(1)

(b) Solve  $\frac{2^2 \times 15^{2x} \times 3^{5x(x-3)} \times 3^{x+3} \times 4^{x-1}}{10^{2x}} = 81^3$

$$x = \dots\dots\dots$$

(5)

(Total for Question 23 is 6 marks)

