

'Increasing Rainfall'

a) 8.2 mm/ day (1)

b) $8.2 \times 365 = 2993 \text{ mm}$
 $\div 1000 = 2.993 \text{ m}$ (1)
 $= 2.99 \text{ m(3sf)}$ (1)

c) $\frac{6.08-4.86}{4.86} \times 100$
 $= 25.1\%$ (allow $\pm 0.5\%$) (3)

d) 1910-1920 area of trapezium:
 $\frac{1}{2} \times (4.25 + 4.45) \times 10 \times 365$
 $= 15877.5 \text{ mm}$
2000-2010 area of trapezium:
 $\frac{1}{2} \times (6.1 + 6.3) \times 10 \times 365$
 $= 22630$
Percentage difference:
 $\frac{22630 - 15877.5}{15877.5} \times 100$
 $= 42.5\%$ (allow $\pm 1\%$) (4)