Answers

1.

      (c.i) 3.98×10^5 m^3

      (c.ii) 9.12 m^3 s^{-1}, 11 hours after the rain starts.

2.

      (b.i) 1.58 m

      (b.ii) Supercritical flow

      (c)   1.44 m

3.

      (b.i) Dunes

      (b.ii) 0.0095 kg/(m s)

      (b.iii) 0.053 m^2/s

4.

      (b.i) 273 litre s^{-1}

      (b.ii) 318 litre s^{-1}