2014 IIA 3D5 - Water Engineering Dr D. Liang

Answers

1.

- (a.ii) $500 \text{ m}^3 \text{ s}^{-1}$ (a.iv) $133 \text{ m}^3 \text{ s}^{-1}$

2.

- 0.00167 (a.i)
- Water level starts to rise at 190s, and it takes 16 s to rise to 4.05 m (c.i)
- (c.ii) 24 s

3.

- 1.5 kg m⁻¹ s⁻¹ (a.i)
- (a.ii)
- 4.1 cm 53.5 m² s⁻¹, 21 kg 0.68 m² s⁻¹ (b.i)
- (b.ii)

4.

- (iii)
- 2.9 m 0.49 m³ s⁻¹ (iv)