

Chapter - 1

- 1.1. $\Delta t = 1 \text{ day}$
 $Q = 15 \times 24 \times 60 \times 60 = (2.5/100) \times 200 \times 10^9$
 $Q = (5 \times 10^9)/36000 = \mathbf{57.87 \text{ m}^3/\text{s}}$
- 1.2. Period = $\Delta t = 1 \text{ year}$
 Input volume = $140 \times 10^6 \times 120/100 = 168 \text{ Mm}^3$
 Runoff = Output volume = $(2 \times 3) + (3 \times 6) + (5 \times 3) = 39 \text{ m}^3/\text{s}$, month
 $= 39 \times (365/12) \times 24 \times 60 \times 60 = 102,492 \text{ Mm}^3$
 (i) Runoff coefficient = $102,492/168.0 = \mathbf{60.8}$
 Abstraction = $168.0 - 102,492 = 65,508 \text{ Mm}^3$
 (ii) Due to infiltration :
 Runoff = $0.5 \times 168.0 = 84.0 \text{ Mm}^3$
 Abstraction = $168.0 - 84.0 = 84.0 \text{ Mm}^3$
 Increase in abstraction = $84.0 - 65,508 = \mathbf{18,492 \text{ Mm}^3}$
- 1.3. Period = $\Delta t = 1 \text{ month} = 30 \text{ days}$
 Input volume = $PA + E\Delta t$
 Output volume = $Q\Delta t + (G + E + T)A$
 $PA + E\Delta t - (Q\Delta t + (G + E + T)A) = \text{change in storage} = \Delta S$
 $PA = \frac{18.5 \times 1375 \times 10^6}{100} = 2,5438 \text{ Mm}^3$
 Total input volume = $17,5438 \text{ Mm}^3$
 $(G + E + T)A = (2.5 + 9.5 + 0) \times \frac{1}{100} \times \frac{1375 \times 10^6}{10^6} = 1.60 \text{ Mm}^3$
 $\Delta S = S_2 - S_1 = -0.75 \times \frac{1375 \times 10^6}{10^6} = -0.1031 \text{ Mm}^3$
 $Q\Delta t = (PA + E\Delta t) - \Delta S - (G + E + T)A = 17,5438 + 0.1031 - 1.60 = 16.047 \text{ Mm}^3$
 Constant rate of withdrawal = $Q = \frac{16.047 \times 10^6}{30 \times 24 \times 60 \times 60} = \mathbf{6.191 \text{ m}^3/\text{s}}$
- 1.4. $E\Delta t - Q\Delta t - \Delta S = S_2 - S_1$
 $E\Delta t = 14.2 \times 3 \times 60 \times 60 = 153,360 \text{ m}^3$
 $Q\Delta t = 10.6 \times 3 \times 60 \times 60 = 114,480 \text{ m}^3$
 $S_2 - S_1 = 38,380 \text{ m}^3$
 $S_1 = 155.5 \text{ ha} \cdot \text{m} = 155,000 \text{ m}^3$
 $S_2 = 155,000 + 38,380 = 193,880 \text{ m}^3 = \mathbf{19.338 \text{ ha} \cdot \text{m}}$

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