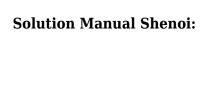
Chapter - 1

- 1.1 $\Delta t = 1 \text{ day}$ $Q \times 1 \times 24 \times 60 \times 60 = (2.5/100) \times 200 \times 10^6$ $Q = (5 \times 10^6)/86400 = 57.87 \text{ m}^3/\text{s}$
- 1.2 Period = $\Delta t = 1$ year Input volume = $140 \times 10^5 \times 120/100 = 168 \text{ Mm}^3$ 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 = 0.61
 Abstraction = 168.0 102.492 = 65.508 Mm³
 - (ii) Due to afforestation: Runoff = 0.5 × 168 .0 = 84.0 Mm³ Abstraction = 168.0 - 84.0 = 84.0 Mm³ Increase in abstraction = 84.0 - 65.058 = **18.492 Mm³**
- 1.3 Period = $\Delta t = 1$ month = 30 days Input volume = $PA + \bar{I}\Delta t$ Output volume = $\bar{Q}\Delta t + (G + E + T)A$ $PA + \bar{I}\Delta t - [\bar{Q}\Delta t + (G + E + T)A] = \text{change in storage} = dS$ $PA = \frac{18.5}{100} \times \frac{1375 \times 10^4}{10^6} = 2.5438 \text{ Mm}^3$ Total input volume = 17.5438 Mm³ $(G + E + T)A = (2.5 + 9.5 + + 0) \times \frac{1}{100} \times \frac{1375 \times 10^4}{10^6} = 1.60 \text{ Mm}^3$ $dS = S_{2^{+}}S_{1} = -0.75 \times \frac{1375 \times 10^4}{10^6} = -0.1031 \text{ Mm}^3$ $\bar{Q}\Delta t = [PA + \bar{I}\Delta t] - \Delta S - (G + E + T)A = 17.5438 + 0.1031 - 1.60 = 16.047 \text{ Mm}^3$ Constant rate of withdrawal = $\bar{Q} = \frac{16.047 \times 10^6}{30 \times 24 \times 60 \times 60} = 6.191 \text{ m}^3/\text{s}$
- 1.4 $I\Delta t \overline{Q}\Delta t = \Delta S = S_z S_z$ $I\Delta t = 14.2 \times 3 \times 60 \times 60 = 153,360 \text{ m}^3$ $\overline{Q}\Delta t = 10.6 \times 3 \times 60 \times 60 = 114,480 \text{ m}^3$ S_2 : S_4 = 38,880 m³ S_4 = 15.5 ha. m = 155,000 m³ S_2 = 155,000 + 38,800 = 193,880 m³ = **19.338 ha.m**

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