

Higher technological institute
10th of Ramadan city
6th of October branch
Civil Engineering department

Subject: water and waste water system

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Sheet (3)

Storage works

- 1 – What are the purpose of Ground reservoir , and Why the Ground reservoir put under ground
- 2 – What is the purpose of air vent and the purpose of inlet walls
- 3 – What is the purpose of elevated tank, and draw a section elevation of the elevated tank
- 4 – For a city with population 150000 cap , The summer consumption/capita is as follows:

Time	Consumption (L/hr)
12 M.N – 2 AM	2
2AM – 4 AM	4
4AM – 6 AM	8
6AM – 8 AM	16
8AM-10AM	25
10AM – 12 N	18
12N – 2PM	10
2PM – 4PM	20
4PM – 6PM	15
6PM – 8PM	10
8PM – 10PM	7
10PM – 12 MN	5

Design The elevated tank and underground tank If the working period of H.L.P 24 hr/d , if W.P =20 hr/d, and if the working period with 2 rates :

R1=525 L/s from (2AM – 8AM) and from (7PM – 10PM)

R2=1388 L/s from (8AM – 7PM)