

**Hydrology – Assignment No. 8****2<sup>nd</sup> Year Civil Eng. 2016/2017**

1. The following table presents the monthly inflow of a river for a given year. It is required to find the required storage of the reservoir to satisfy demand requirements of 55 m<sup>3</sup>/s. use graphical and analytical methods.

Month	1	2	3	4	5	6	7	8	9	10	11	12
Inflow m <sup>3</sup> /s	72	54	42	30	18	26.4	60	96	126	108	96	84

2. The yield of water in million m<sup>3</sup> from a catchment area during each successive month is given below: Determine the minimum capacity of a reservoir required to allow the above volume of water to be drawn off at a uniform rate assuming that there is no loss of water over the spillway(graphically and analytically).

Month	Inflow
1	1.90
2	2.86
3	3.81
4	11.42
5	16.18
6	16.18
7	10.47
8	3.81
9	3.43
10	3.05
11	2.67
12	2.28