

TEST -3

ENGINEERING HYDROLOGY

Total Marks: 10

Q.1 Define following:

- a) Infiltration Capacity
- b) Hyetograph
- c) DAD Relationship

Q.2 A catchment has six rain-gauge stations. In a year, the annual rainfalls recorded by the gauges are as follows:

Station	A	B	C	D	E	F
Rainfall	82.6	102.9	180.3	110.3	98.8	136.7

- (a) Determine the standard error in the estimation of mean rainfall in the existing set of rain gauges.
- (b) For a 10% error in the estimation of the mean rainfall, calculate the optimum number of rain gauge stations in the catchment.