

Q3) What do you mean by estimated

Answer) Probable Maximum Precipitation

- ① The probable maximum precipitation, or PMP for a region is the precipitation resulting from the most critical meteorological combination that are considered probable of occurrence.
- ② It can be defined as that rainfall over a basin which would produce that flood flow is virtually no risk of being exceeded.

B) Maximum And Minimum Rainfall

⇒ The magnitude of max. Rainfall and min. Rainfall with specific time period can be determined by the use of frequency formula.

$$T = \frac{2N}{2m-1} = \frac{N}{m-0.5}$$

Procedure for determination of Max Rainfall

- ① Arrange the rainfall data in descending order and assign rank number (m) to each rainfall event, the total number of event being equal to N .
- ② Compute recurrence interval (T) for each event
- ③ Plot a graph between recurrence interval as abscissa and corresponding rainfall as ordinate.

Procedure for Determination of minimum Rainfall.

- ① Arrange the rainfall data as ascending order and assign rank number to each rainfall event the total number of event being equal to N .
- ② Compute recurrence interval T for each event
- ③ Plot a graph b/w recurrence interval as abscissa and corresponding rainfall as ordinate.