

## Ans. 3) Probable Maximum precipitation

- 1) The probable max precipitation, commonly known as 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 the flood flows with the virtually no risk of being exceeded.
- 3) From the statistical studies PMP can also be estimated from the following equation -

$$PMP = \bar{P} + K\sigma$$

$\bar{P}$  = Mean of annual max rainfall series

$K$  = frequency factor

$\sigma$  = standard deviation of the series.