

Q The various abstractions that place precipitation -
when precipitation take place on land surface whole of it is not available as runoff because of losses that take place during or after the precipitation -

- (1) Interception
- (2) Evaporation
- (3) Transpiration
- (4) infiltration
- (5) Depression Storage
- (6) watershed leakage

1. Interception - (i) It may be define as that amount of precipitation water which is intercepted by vegetation foliage building and other objects lying over the land surface.

(ii) Depression storage -

$$V_{ds} = k \left[1 - e^{-pe/k} \right]$$

(i) A catchment are generally has many depression of shallow depth and of varying size and shape.

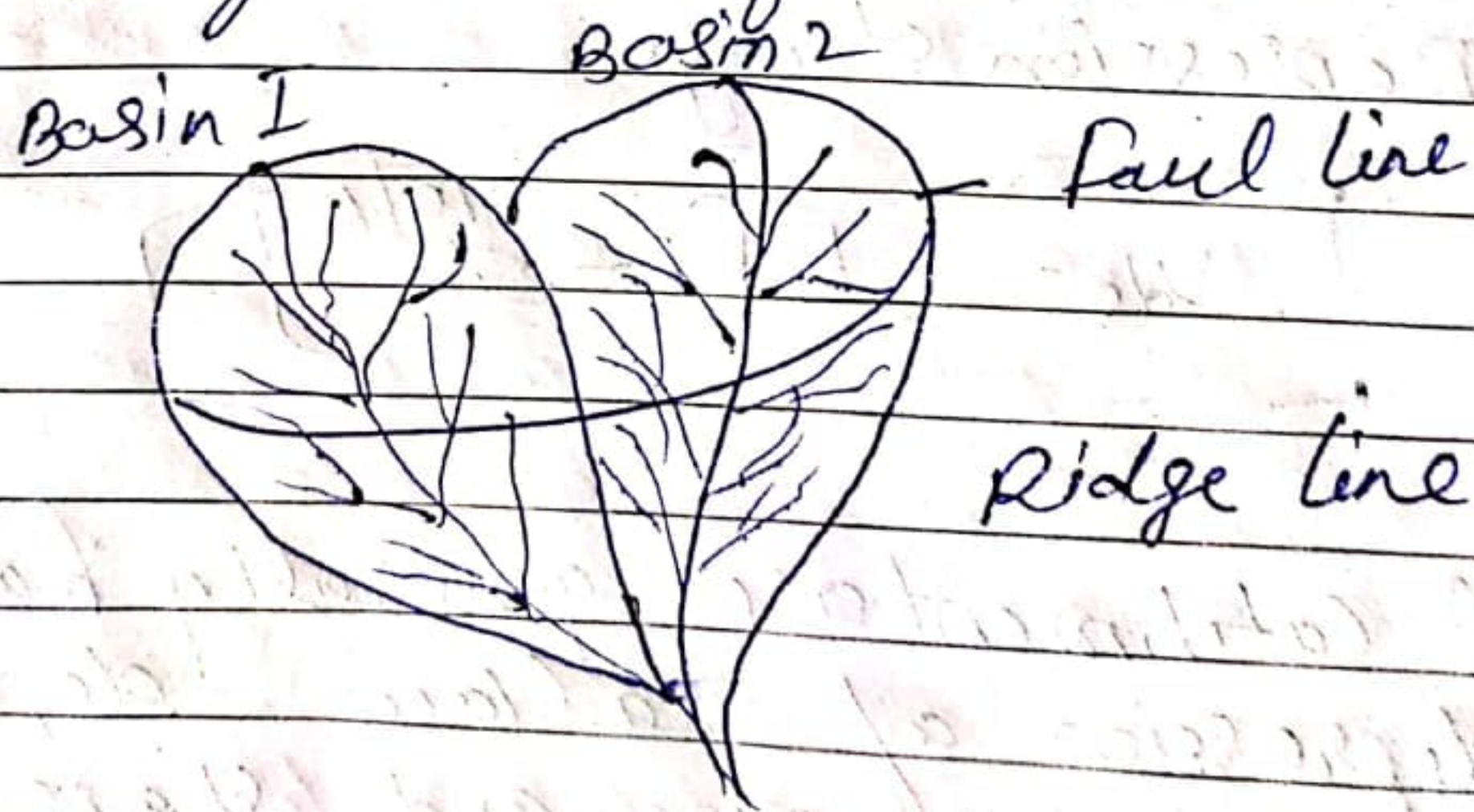
(ii) When precipitation take place water runs towards these depression and fill them before actual overland flow or runoff towards a stream take place.

(iii) Depression storage depends on vast number -

(1) type of soil (2) Slope of catchment

3. watershed leakage

- ① Adjacent basins are separated by ridge line so that rainfall falling over a basin flow towards the drainage line of basin.



- (i) Due to these faults fissure, under ground hydraulic conduits so formed convey the discharge falling over a part of the catchment.