RIVER CONTROL

- The training of river involves the construction of the structures so as to guide and confine the flow in the river in such a way that it does not interfere with the surrounding area
- The training of the river can be done for the following purposes:-
  (a) It is done to avoid the flooding of surrounding area
  (b) it is done to prevent the alignment of the river.
  (c) It is done to ensure the minimum depth of flow required for navigation.
  (d) It is done to control the flow the sediments in the river.

⇒ TYPE OF RIVER TRAINING

(1) HIGH Water Training → (Training/control of discharge)

↳ Done to avoid the flooding of surrounding area by controlling the discharge in the river.

(2) LOW WATER TRAINING → (Control of depth).

↳ Done to ensure the minm depth of flow reqd for navigation.

(3) MEDIUM WATER TRAINING → (control of sediments)

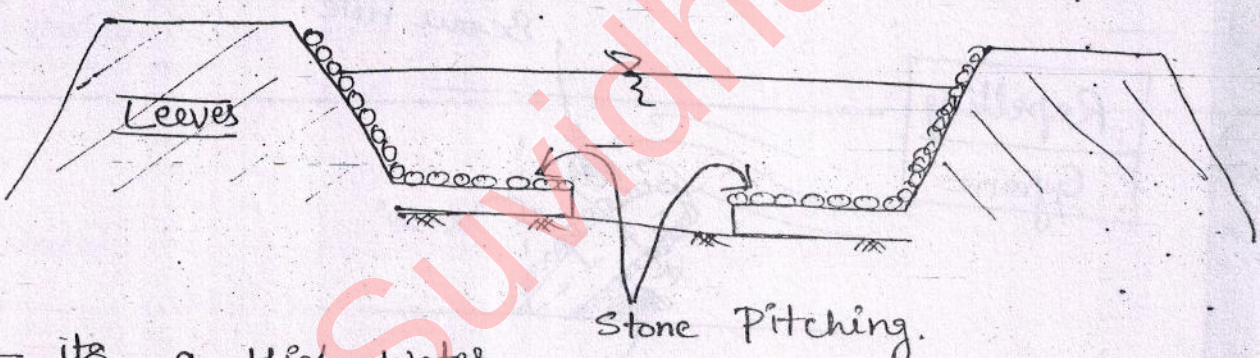
↳ Done to ensure the safe disposal of sediment load present in the river.

⇒ CONSTRUCTION WORKS FOR RIVER TRAINING

- Marginal Embankments / Leeves.
- Guide Banks.
- Gyrones / spur.
- Artificial Cut-off.
- Pitched Islands.

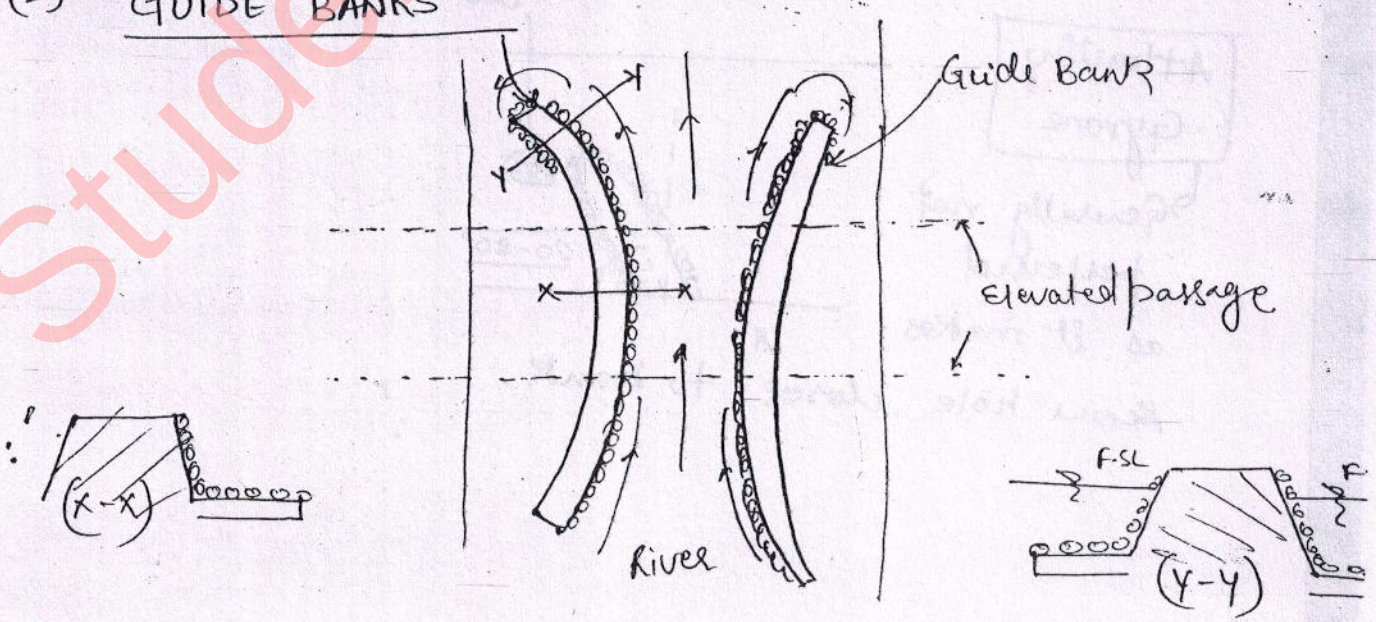
(1) MARGINAL EMBANKMENTS :-

- provided when river enters populated areas like city etc

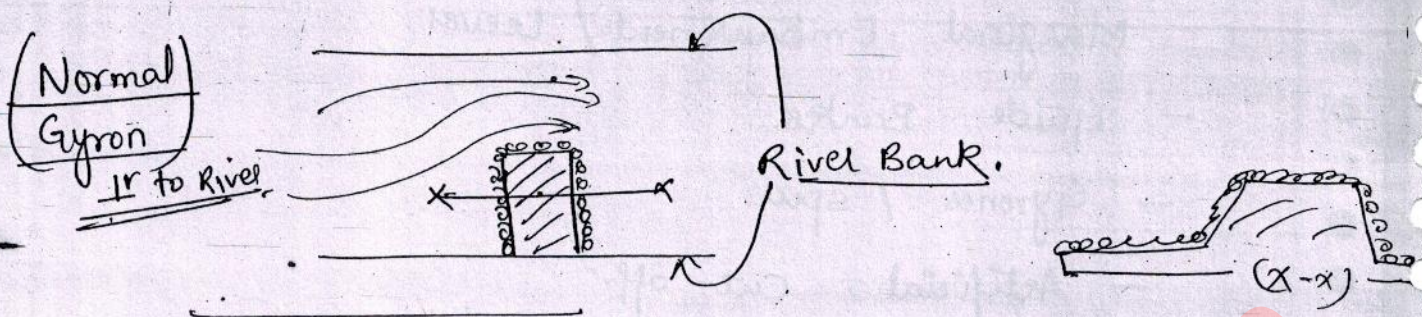


- its a high water training (flood control).

(2) GUIDE BANKS

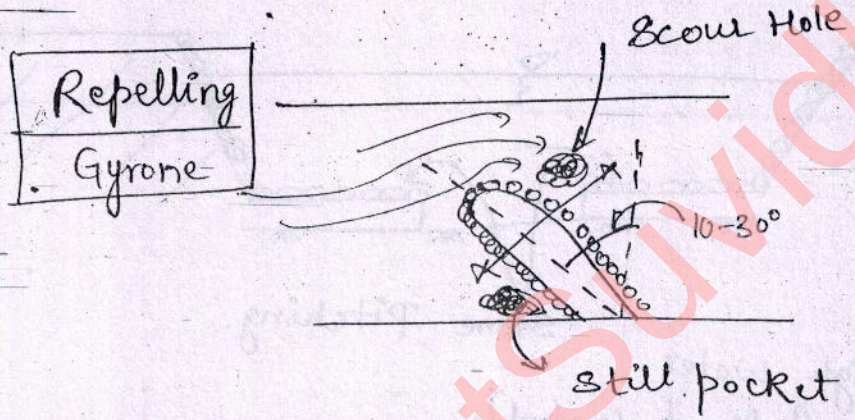


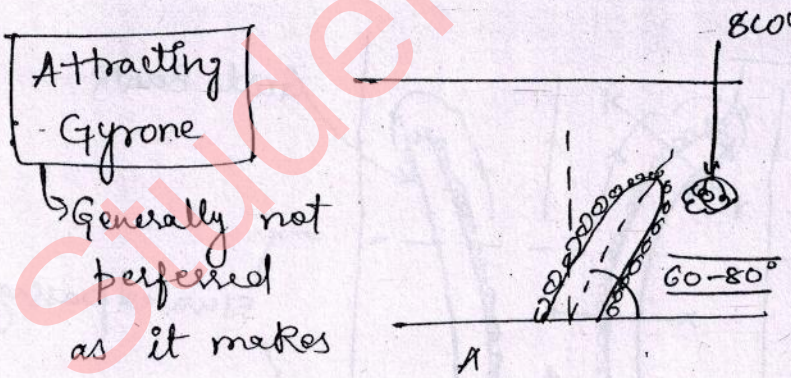
(iii) GYRONES / SPUR



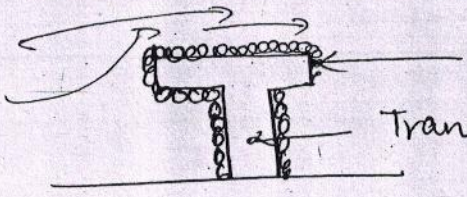
in transverse dirxn

- reducing eff. width of Rivel.
- increase the depth so navigation can be done
- low water training str.

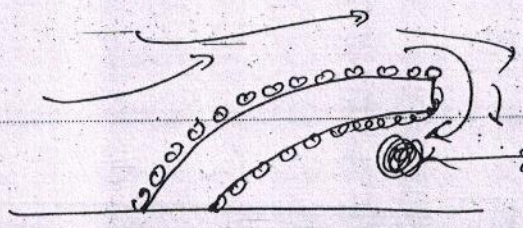




↳ Generally not preferred as it makes scour hole closer to bank.



T-SHAPPED GYRONE



Hockey shapped

↳ same as attractive gyrone

↳ so not perferred.