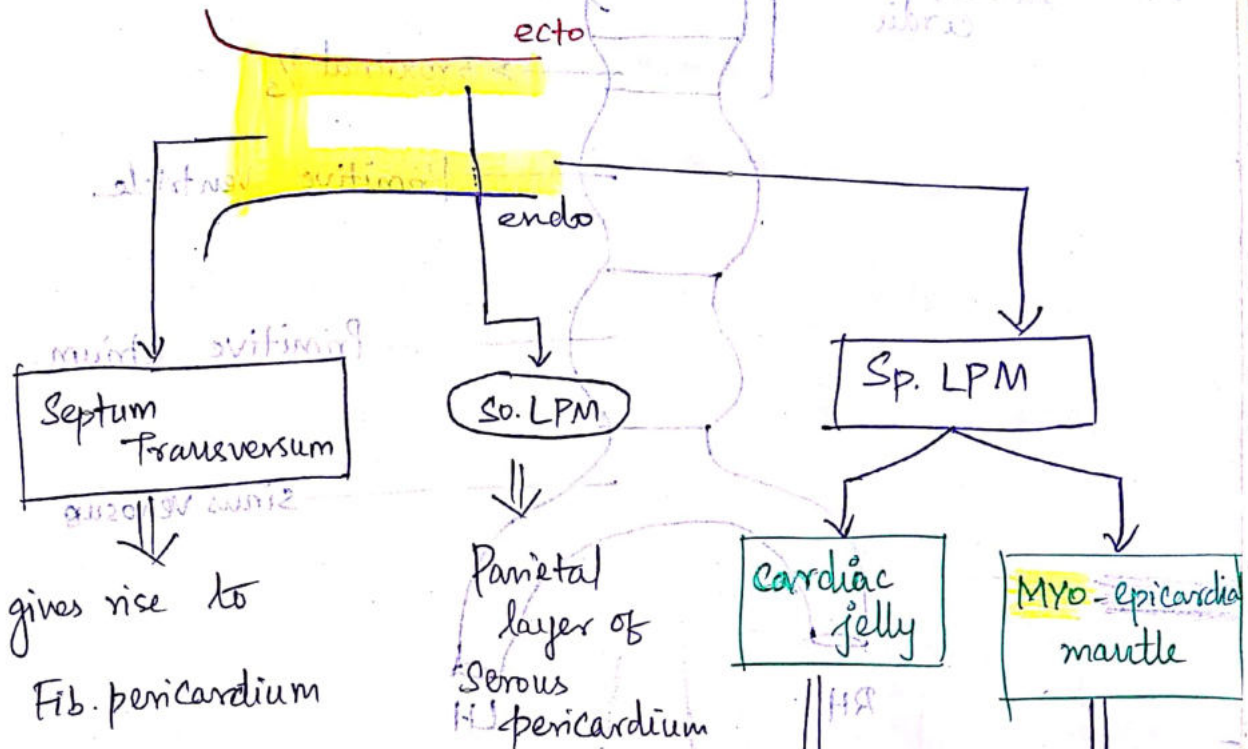
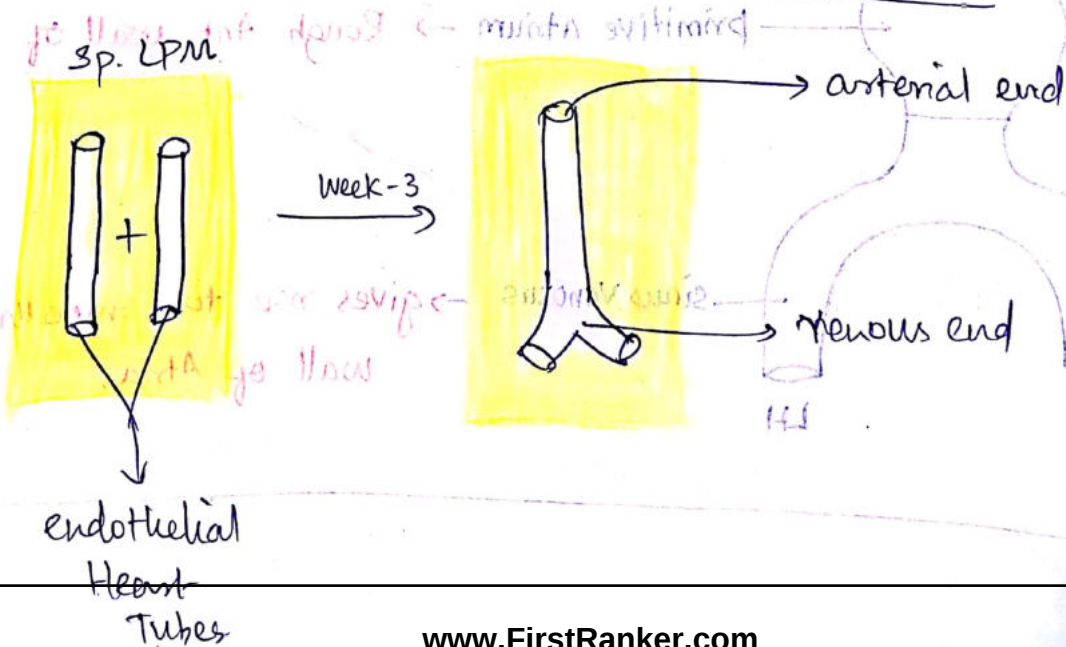




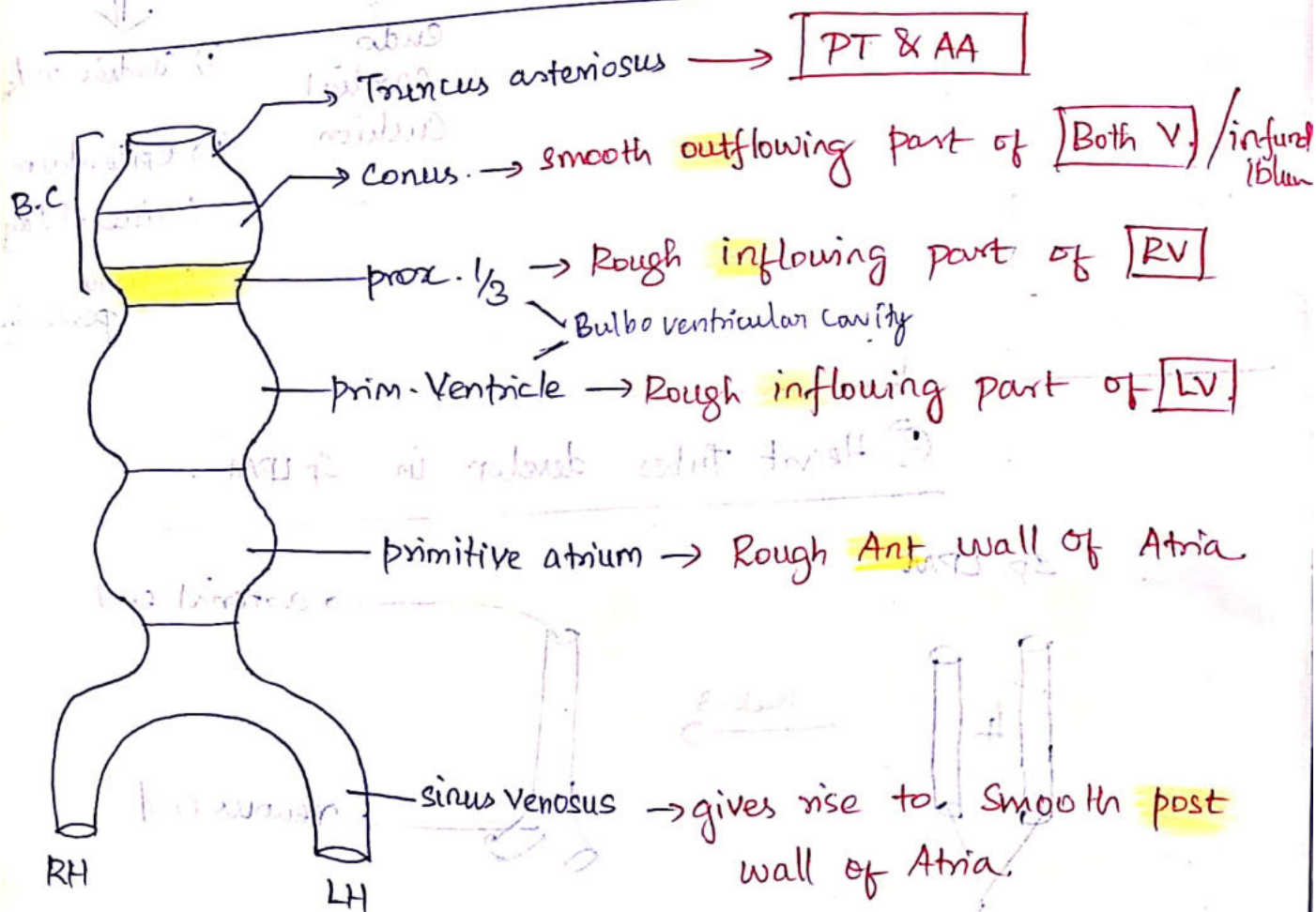
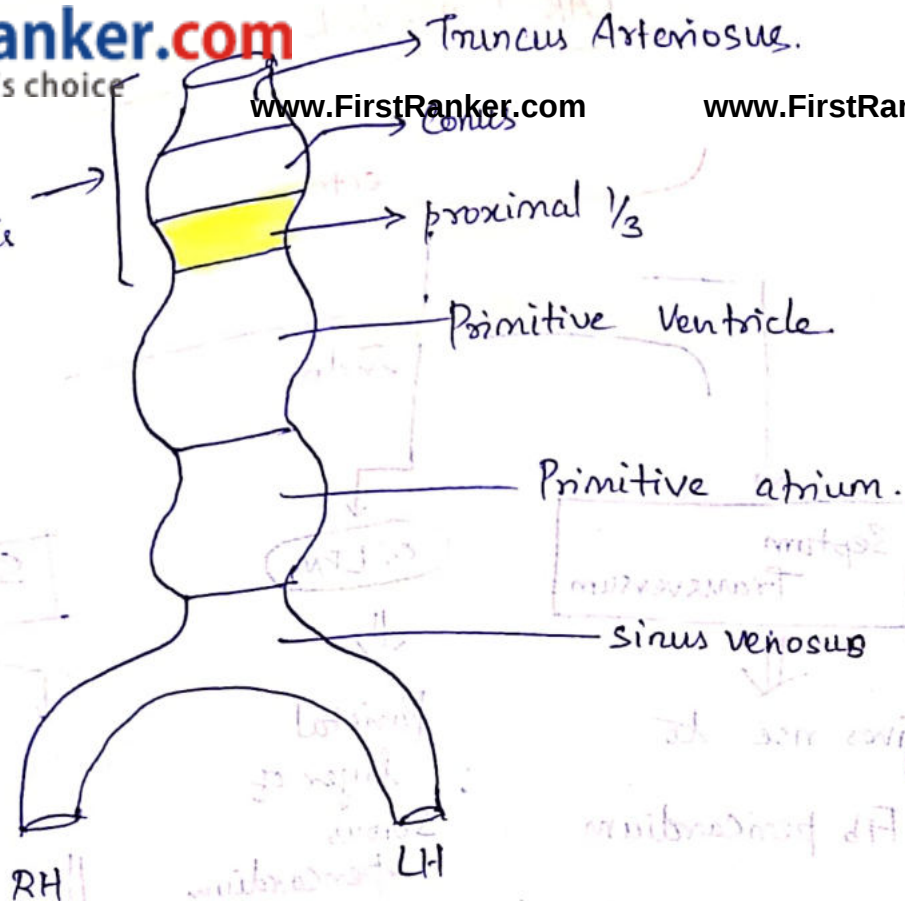
AA & TP

② Heart Tubes develop in Sp. LPM



Heart tube

Bulbus cordis

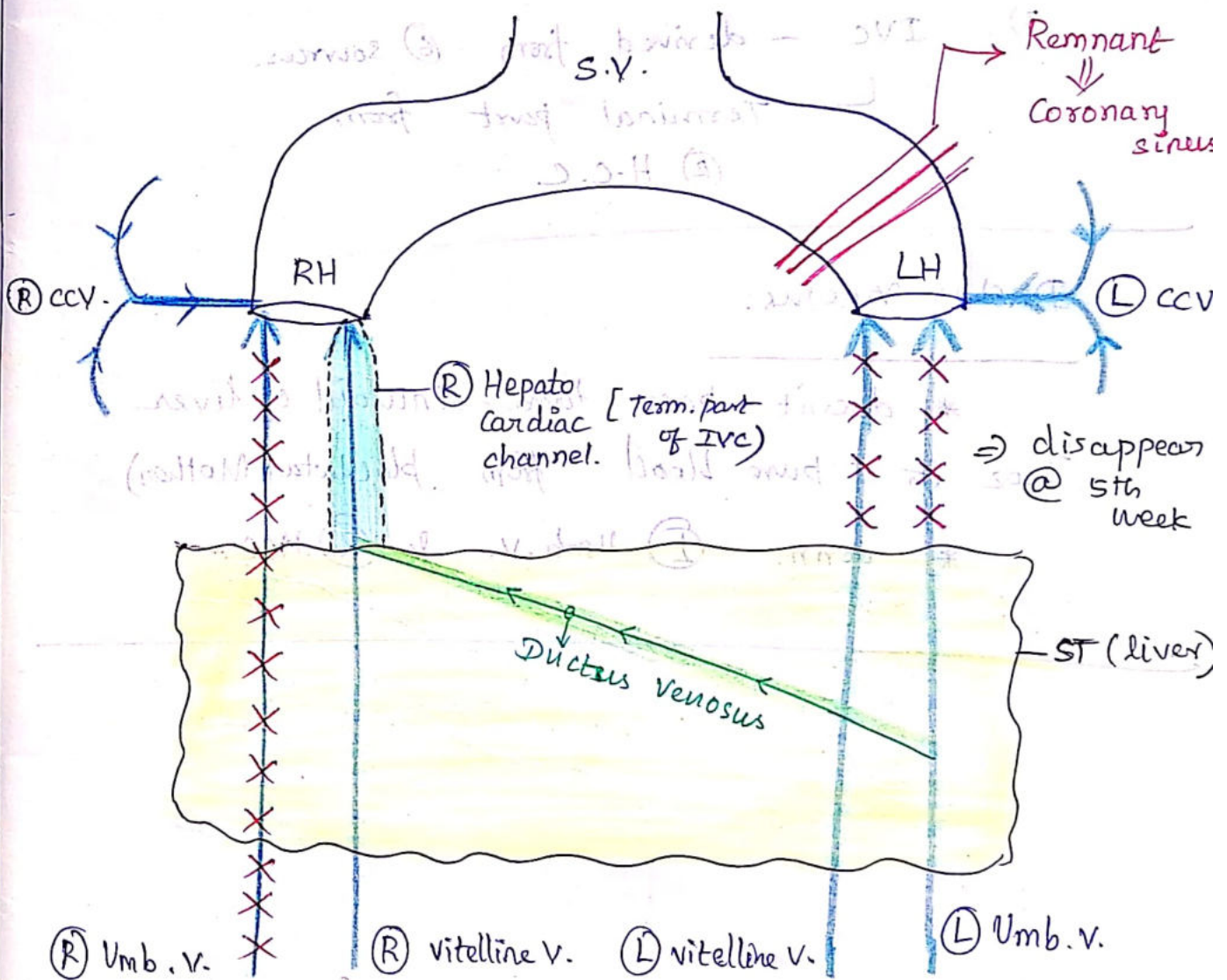


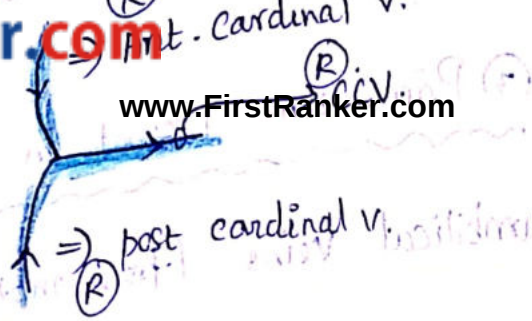
③ Prim. veins present in embryo.

- 1) (R) & (L) umbilical veins (from mother).

2) (R) & (L) Vitelline veins (from Yolk sac/GIT).

3) (R) & (L) Common Cardinal Veins (from Body wall).
(CCV).





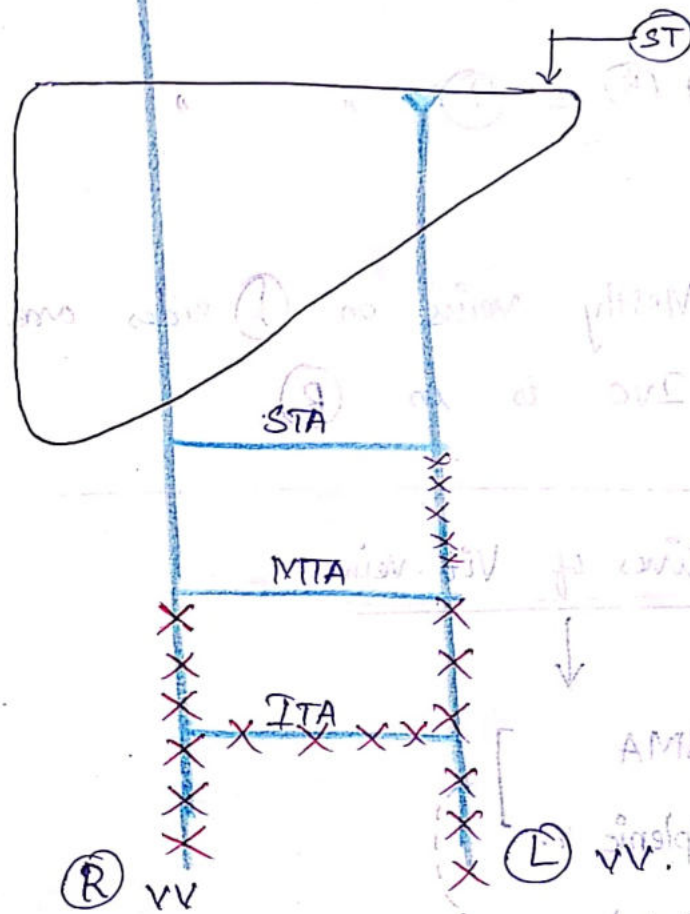
2) L.H. of S.V regresses & remnant of it is the Coronary sinus

3) IVC - derived from ⑥ sources
 ↳ Terminal part from ② H.C.C

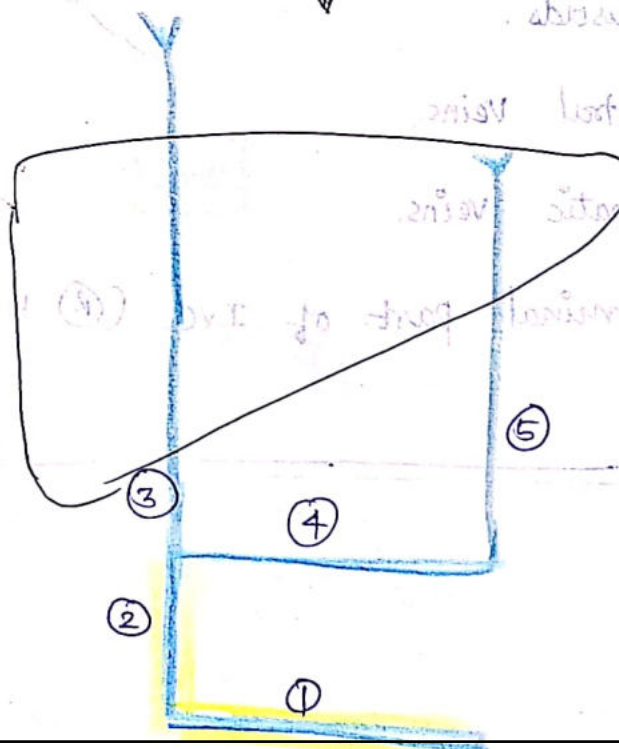
Ductus venosus:

* doesn't pass thro' sinusoid of liver
 bcoz its pure blood from placenta (Mother).

* conn. ① Umb. V. & ② H.C.C.



* STA - sup. Transverse Anastomosis.



① + ② = ③
(MTA) (R) VV

③ = (R) Br. of Portal vein

④ + ⑤ = (L) " "

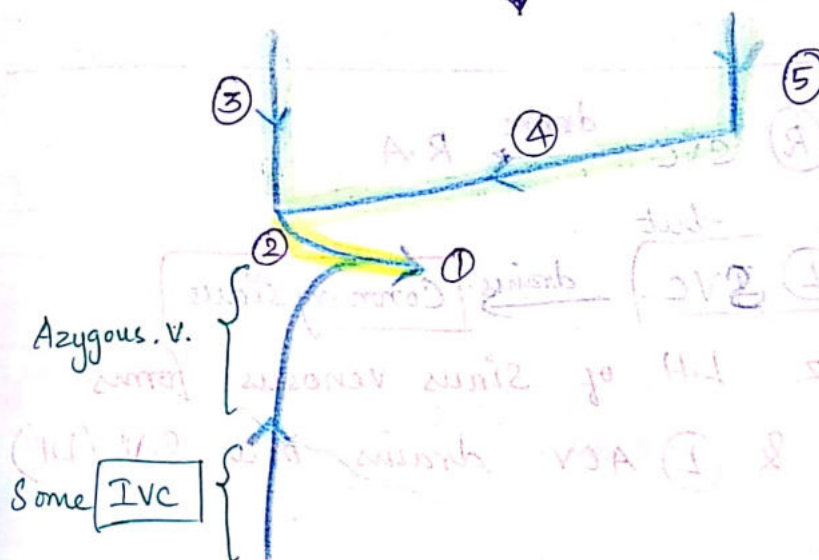
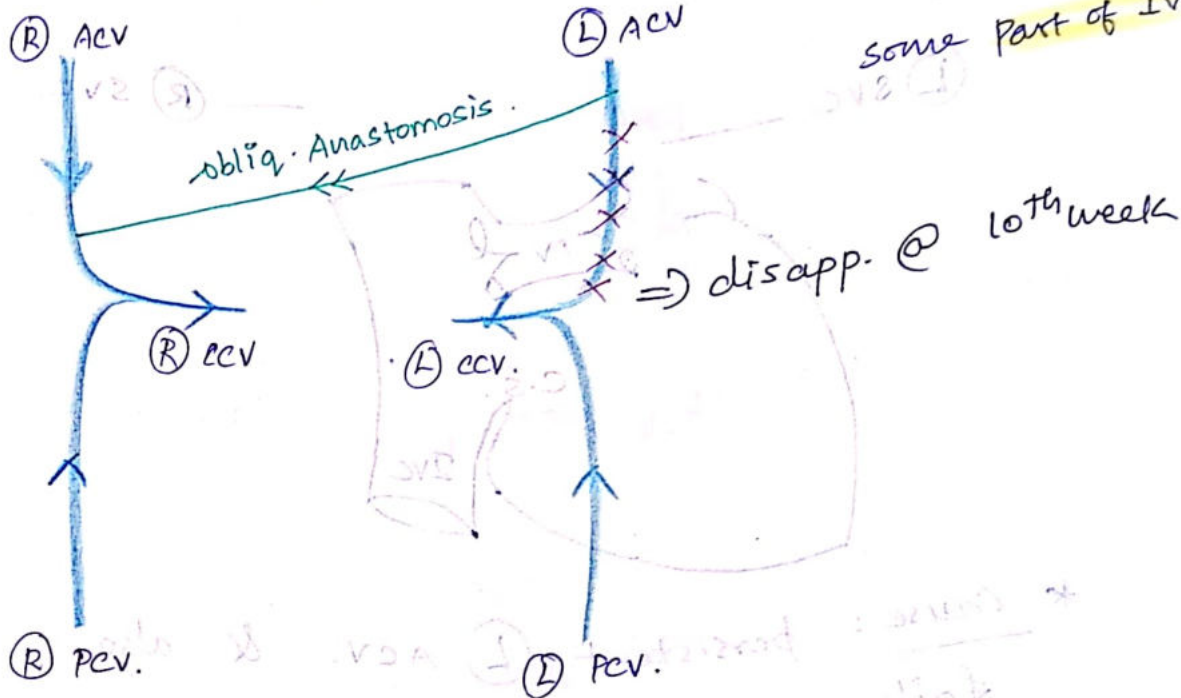
Note:

Mostly veins on (L) sides are longer than (R)
bcz IVC is in (R).

Derivatives of Vit. Vein



- 1) SMA
- 2) Splenic v.
- 3) Portal v. ←
- 4) (R) & (L) br. of Portal v.
- 5) Sinusoids.
- 6) Central veins.
- 7) Hepatic veins.
- 8) Terminal part of IVC ((R) HCC).

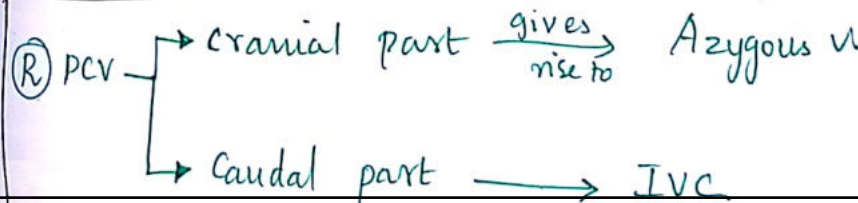


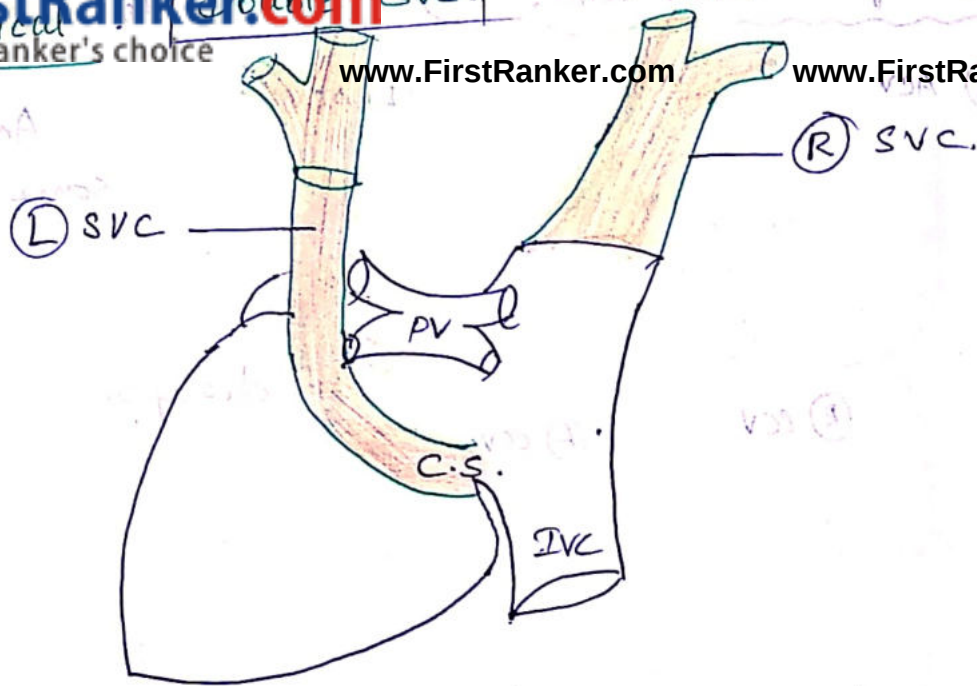
$$\textcircled{1} + \textcircled{2} = \boxed{\text{SVC}}$$

[R ECV] [R ACV]

$$\textcircled{3} = \textcircled{R} \text{ Brachioceph. V.}$$

$$\textcircled{4} + \textcircled{5} = \textcircled{L} \text{ } "$$





* Cause: persistent L ACV & also failure of formⁿ of oblique Anastomosis

* Note: R SVC $\xrightarrow{\text{drains}}$ R.A

but L SVC $\xrightarrow{\text{drains}}$ Coronary Sinus

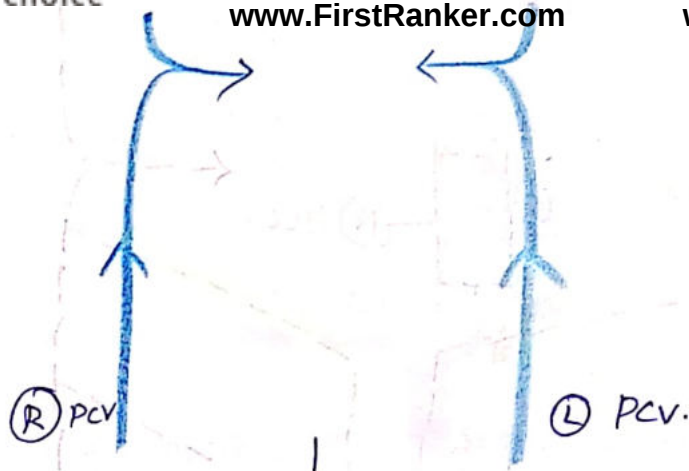
This is bcz L.H of sinus venosus forms Coronary sinus. & L ACV drains into S.V. (LH)

$$[SVC] = [LVC] + [LACV]$$

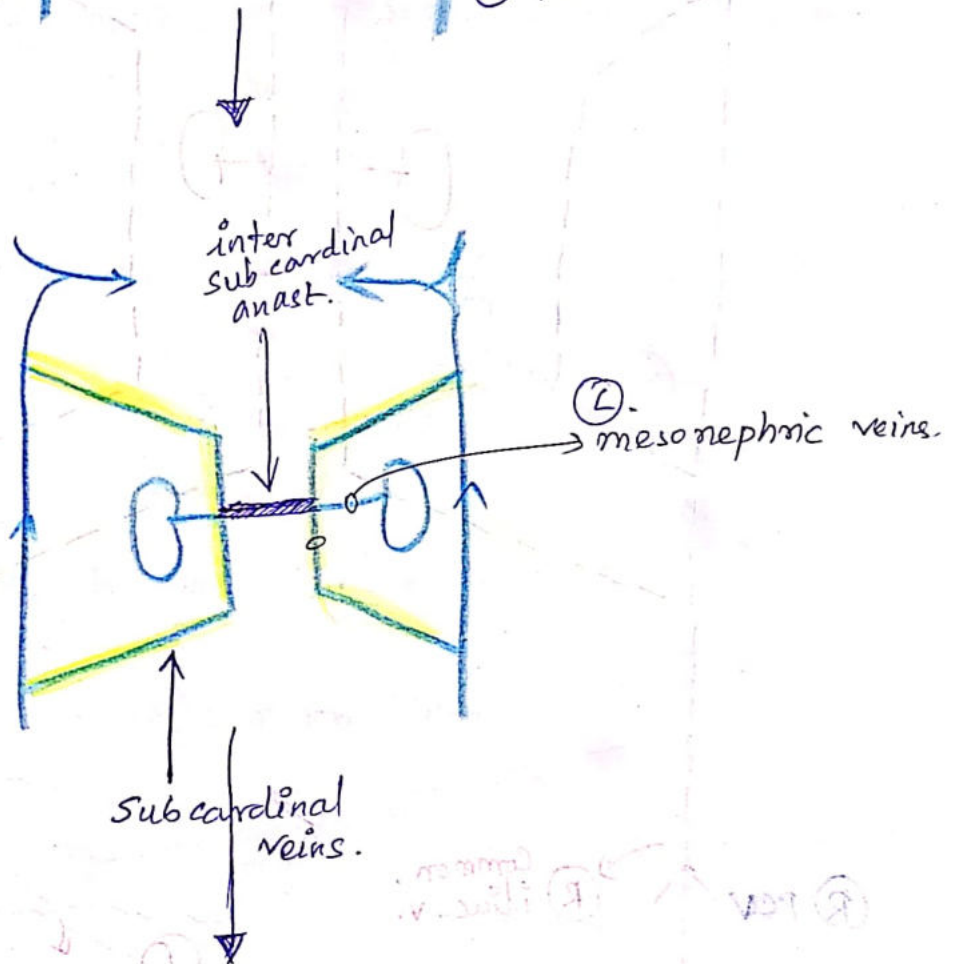
V. geschlossen. 2. 3.

$$1 = 2 + 3$$

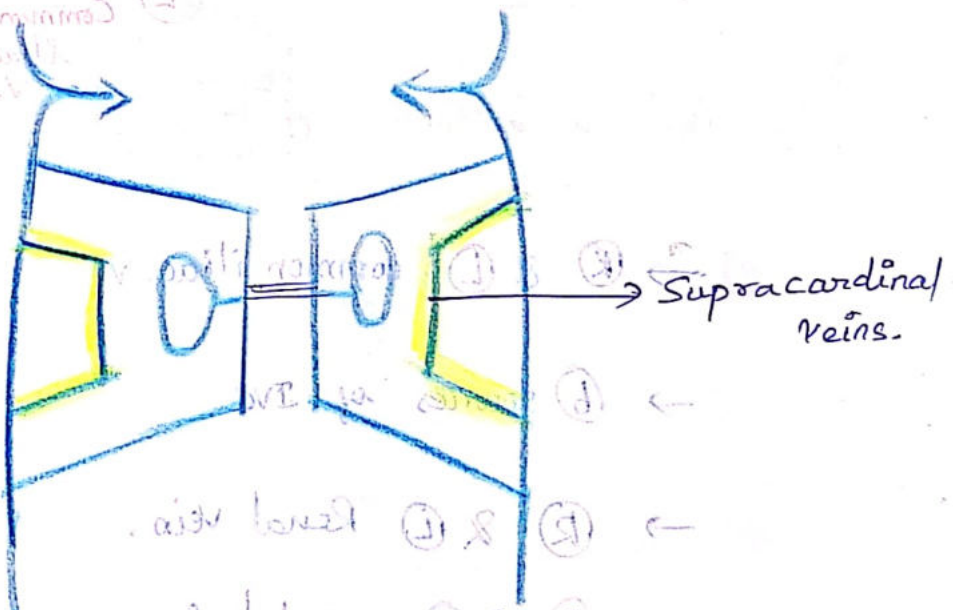
Step ①

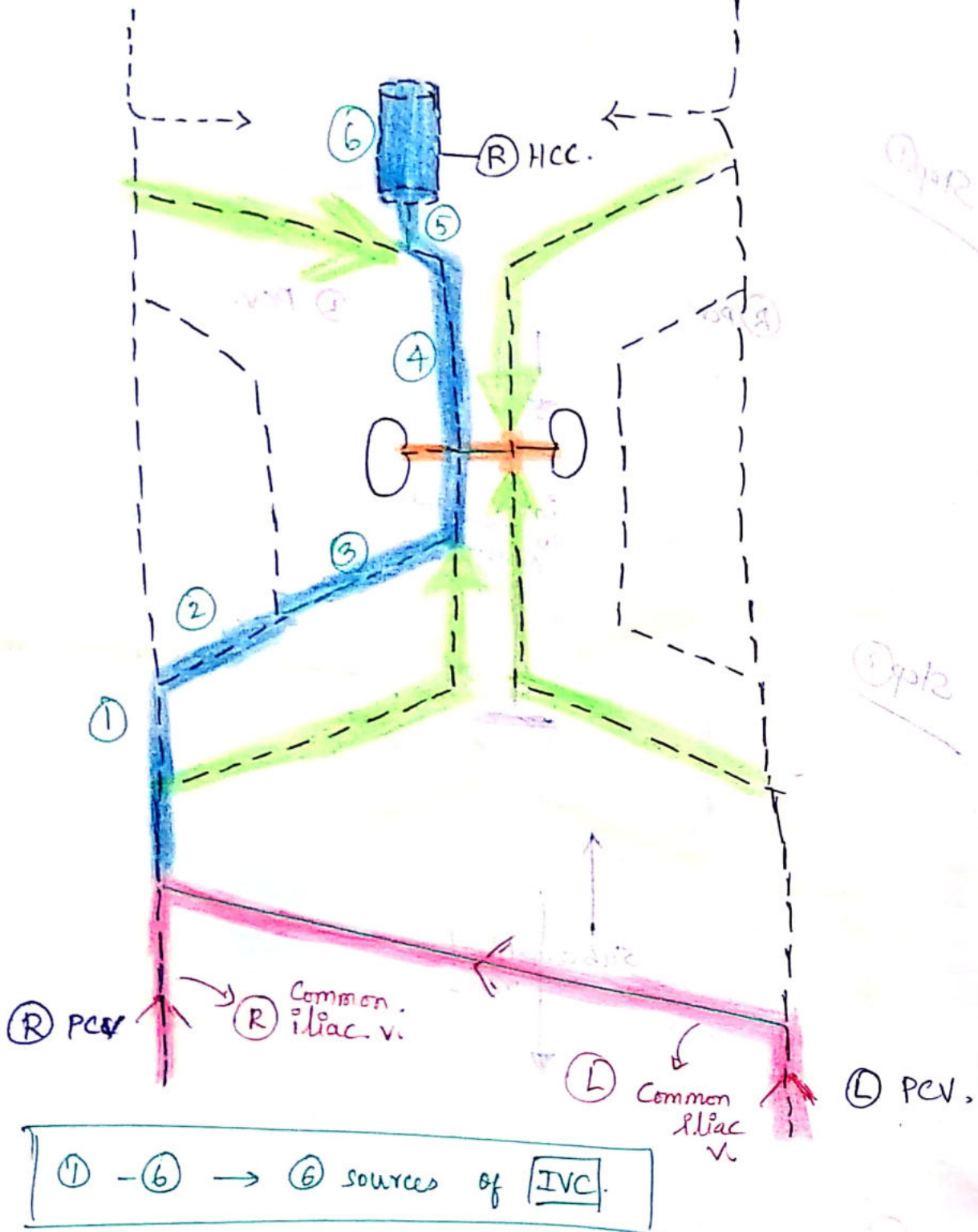


Step ②



Step ③





① - ⑥ → (R) & (L) common iliac v.

② → (6) sources of IVC

③ → (R) & (L) Renal vein.

④ → (R) & (L) gonadal & suprarenal veins

- 1) (R) PCV.
- 2) (R) Supra Cardinal v.
- 3) Anastomosis b/n (R) Supra & sub Cardinal v.
- 4) (R) Subcardinal v.
- 5) Anastomosis b/n (R) Sub c. & (R) HCC.
- 6) (R) H.C.C. (Hepato Cardiac channel)

II) (R) & (L) Common iliac v.

(R) PCV = (R) common iliac v.

(L) PCV + anastomosis b/n (R) & (L) PCV = (L) common iliac v.

III) (R) & (L) renal v.

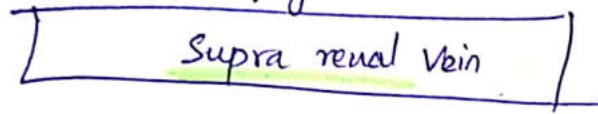
(R) renal v. ← from (R) mesonephric v.

(L) renal vein ← from

- * (L) mesonephric v.
- * (L) Sub cardinal v.
- * Inter subcardinal anastomosis

* Cranial part of subcardinal v.

↓ gives rises.

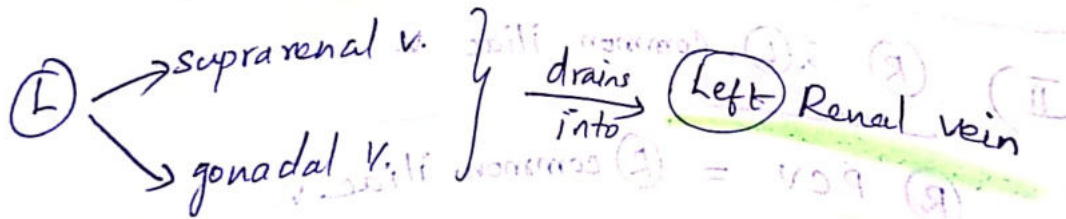
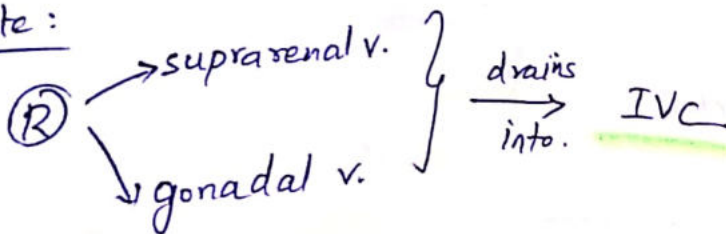


* Caudal part of subcardinal v.

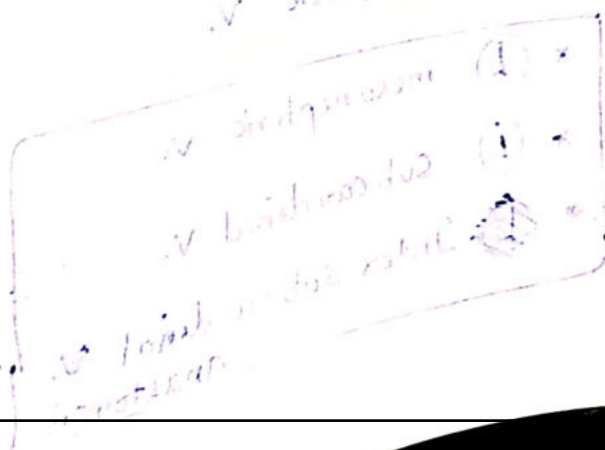
↓



Note:



clinical



www.FirstRanker.com

Summary: Venous System Development :

③ primary veins in embryo.

