

Formation of

Hemoglobin.

[DEPTH OF BIOLOGY]

Blood is a protein

HAEM

[DEPTH OF BIOLOGY]

GLOBIN

(Pigment Part)

(Protein Part)

Iron
(exists in ferrous form Fe^{2+})

Porphyrin

α -Chain
(Pair)

β -Chain
(Pair)

(Polypeptide chains)

α -Chain

$$= 141 \times 2 = 282$$

Aminoacid.

β -Chain \Rightarrow

$$146 \times 2 = 292$$

Aminoacid.

[DEPTH OF BIOLOGY]

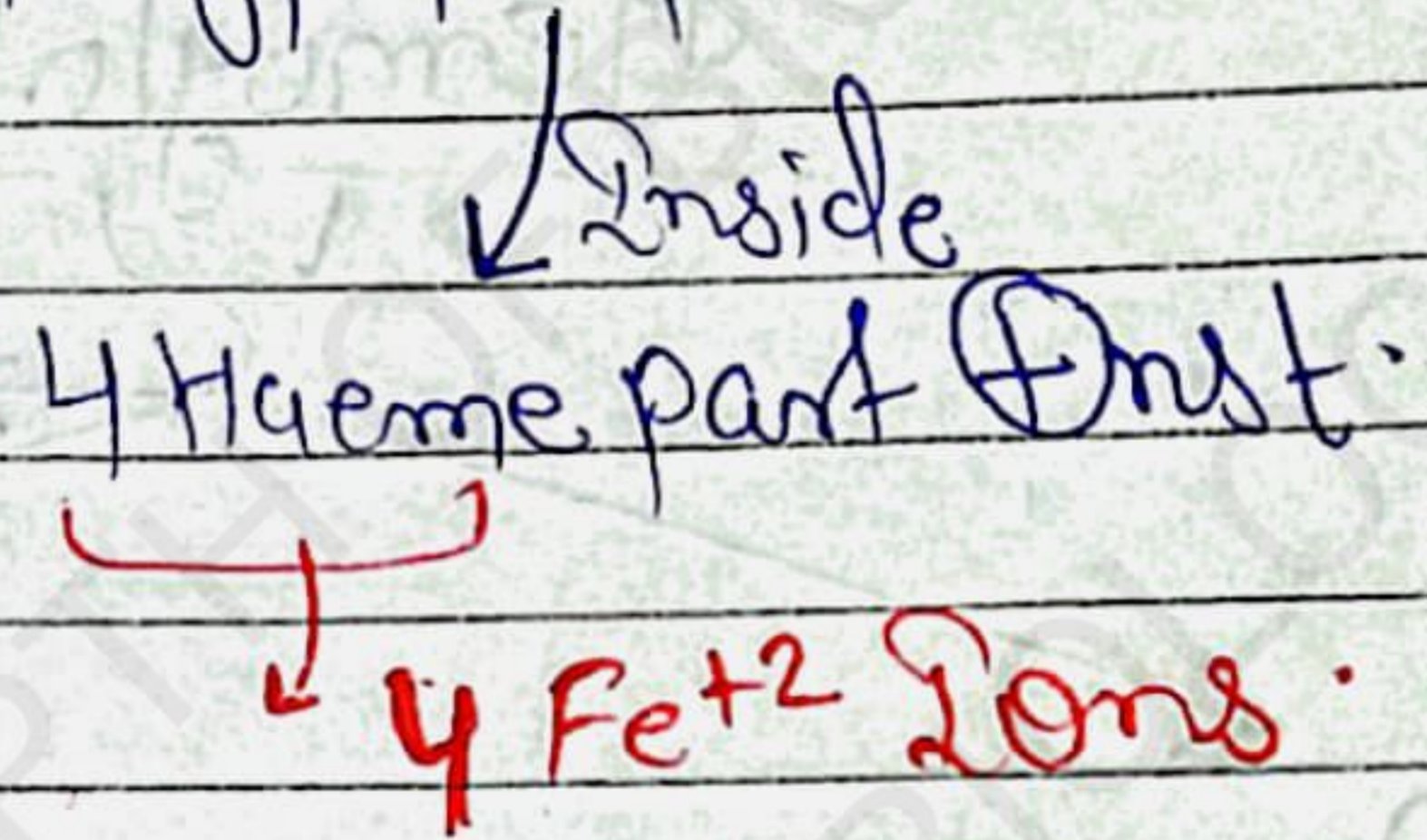
Globin
Contain
574
Aminoacid.

Porphyrin = (Tetrapyrrole structure linked with Fe^{2+})
with methylene bridges.

5 Member Heterocyclic ring (Contain N.)

1 Hb contain = 4 polypeptide chain.

[DEPTH OF BIOLOGY]



Jd b =>

- ① Globular protein = H₂O soluble protein
- ② Quaternary protein struc.
- ③ Carries O₂.